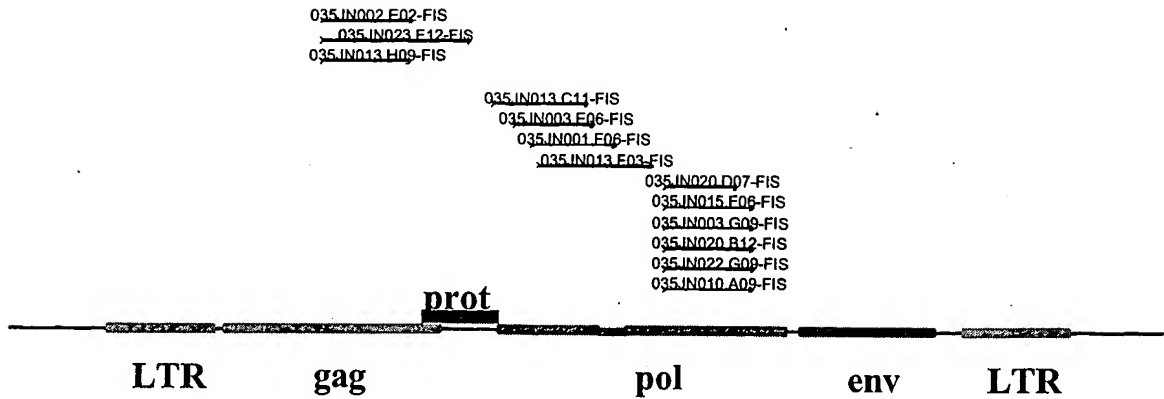
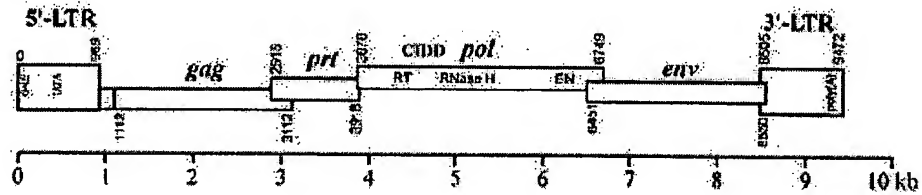
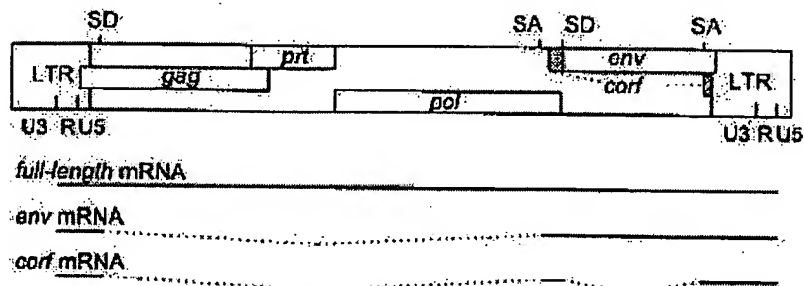
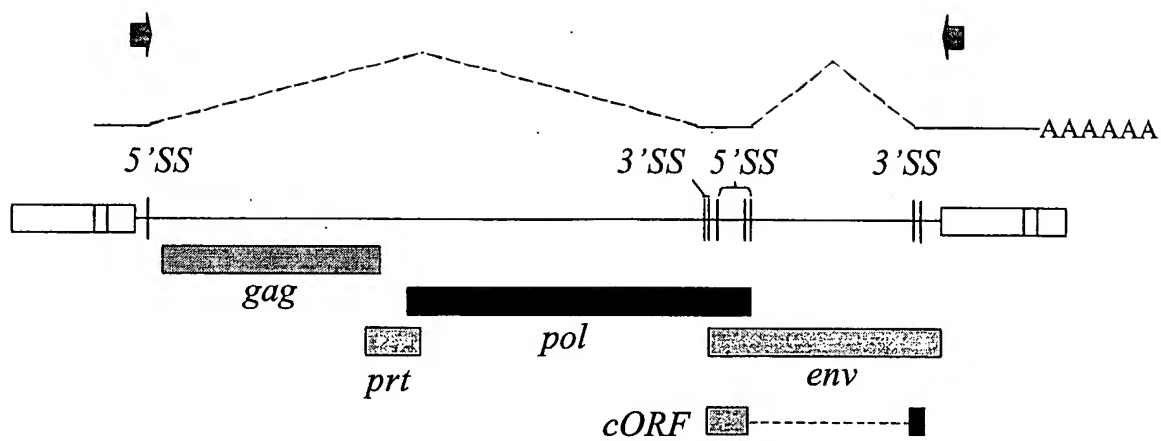


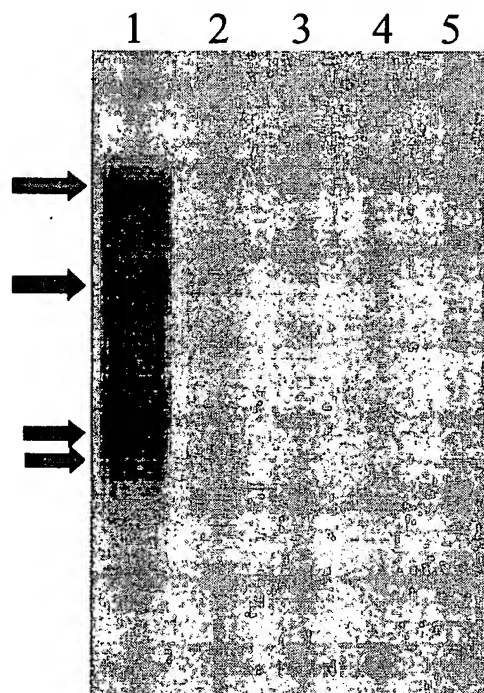
**FIGURE 1****FIGURE 2****FIGURE 3**

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**FIGURE 4**



**FIGURE 5**



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FIGURE 6

ENV GENOMIC HERV MDA	(1)	1	80
ENV GENOMIC HERV-K TAN.	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC AC025420	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC AP000776	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC HERV-K8	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC HERV-KI	(1)	-----	ACATTGGAAGTTCTACA
ENV HERV-K AF023261	(1)	GGGGAGAGGTTTGTCTGTGTTTTCACGAGGAGAAATCAGCTTCTCTGTTGGATACCCACTAG	ACATTGGAAGTTCTACA
ENV GEN AL035086	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC AL035587	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC AC012068	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC AF277315	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC AF027650	(1)	GGGGAGAGGTTTGTCTGTGTTTTCACGAGGAGAAATCAGCTTCTCTGTTGGATACCCACTAG	ACATTGGAAGTTCTACA
ENV GENOMIC AC078899	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC HERV-KII	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC AC008813	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC AC012309	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC AL121932	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC AD000090	(1)	-----	ACATTGGAAGTTCTACA
ENV GEN AL160008	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC HEU32496	(1)	GGGTAATCATTGAGGACAAAGTCGACGAGAGATCCCGAGGACGTCTACAGTCAGCCTTACGACATTGGAAGTTCTACA	ACATTGGAAGTTCTACA
ENV GENOMIC AC011467	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC AF235103	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC AC026786	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC AC034203	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC AC018809	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC HERV-KI02 AF164610	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC FRAG. AF260253	(1)	-----	ACATTGGAAGTTCTACA
CONSENSUS	(1)	-----	ACATTGGAAGTTCTACA
ENV GENOMIC HERV MDA	(18)	ATGAACCTACTGAGATGCAAGAGAA	81
ENV GENOMIC HERV-K TAN.	(18)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC AC025420	(18)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC AP000776	(18)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC HERV-K8	(18)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC HERV-KI	(18)	ATGAACCTACTGAGATGCAAGAGAA	81
ENV HERV-K AF023261	(81)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GEN AL035086	(1)	-----	81
ENV GENOMIC AL035587	(18)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC AC012068	(6)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC AF277315	(15)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC AF027650	(79)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC AC078899	(16)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC HERV-KII	(18)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC AC008813	(29)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC AC012309	(21)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC AL121932	(18)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC AD000090	(18)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GEN AL160008	(1)	-----	81
ENV GENOMIC HEU32496	(78)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC AC011467	(74)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC AF235103	(72)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC AC026786	(58)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC AC034203	(58)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC AC018809	(16)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC HERV-KI02 AF164610	(70)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC FRAG. AF260253	(1)	-----	81
CONSENSUS	(81)	ATGAACCCATGAGATGCAAGAGAA	81
ENV GENOMIC HERV MDA	(72)	361	240
ENV GENOMIC HERV-K TAN.	(83)	-----	-----
ENV GENOMIC AC025420	(83)	-----	-----
ENV GENOMIC AP000776	(83)	-----	-----
ENV GENOMIC HERV-K8	(15)	-----	-----
ENV GENOMIC HERV-KI	(83)	-----	-----
ENV HERV-K AF023261	(146)	-----	-----
ENV GEN AL035086	(1)	-----	-----
ENV GENOMIC AL035587	(83)	-----	-----
ENV GENOMIC AC012068	(71)	-----	-----
ENV GENOMIC AF277315	(80)	-----	-----
ENV GENOMIC AF027650	(144)	-----	-----
ENV GENOMIC AC078899	(81)	-----	-----
ENV GENOMIC HERV-KII	(72)	-----	-----
ENV GENOMIC AC008813	(104)	-----	-----
ENV GENOMIC AC012309	(86)	-----	-----
ENV GENOMIC AL121932	(83)	-----	-----
ENV GENOMIC AD000090	(88)	-----	-----
ENV GEN AL160008	(1)	-----	-----
ENV GENOMIC HEU32496	(143)	-----	-----
ENV GENOMIC AC011467	(128)	-----	-----
ENV GENOMIC AF235103	(142)	-----	-----
ENV GENOMIC AC026786	(58)	-----	-----
ENV GENOMIC AC034203	(123)	-----	-----
ENV GENOMIC AC018809	(70)	-----	-----
ENV GENOMIC HERV-KI02 AF164610	(124)	-----	-----
ENV GENOMIC FRAG. AF260253	(1)	-----	-----
CONSENSUS	(161)	T GACTCACAAGATGAA AAAATGGTGA TCAGAAGACAGATGAAGTTGCCATCCACCAAGAA GC GA	-----

[illegible]

[illegible]



## FIGURE 6 CONTD...

ENV GENOMIC HERV MDA	(609)	721	800
ENV GENOMIC HERV-K TAN.	(630)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC AC025420	(627)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC AP000776	(630)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC HERV-K8	(291)		
ENV GENOMIC HERV-KI	(630)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV HERV-K AF023261	(693)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GEN AL035086	(416)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC AL035587	(630)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC AC012068	(618)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC AF277315	(627)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC AF027650	(692)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC AC078899	(629)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC HERV-KII	(338)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC AC008813	(650)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC AC012309	(629)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC AL121932	(627)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC AD000090	(643)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GEN AL160008	(482)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC HEU32496	(441)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC AC011467	(394)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC AF235103	(688)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC AC026786	(564)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC AC034203	(670)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC AC018809	(337)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC HERV-KI02 AF164610	(390)	CGGTAAATTTTACAGACCTTCTATCAAGATCATTAATAATTAGACCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC FRAG. AF260253	(1)		
CONSENSUS	(721)	C GGTAAAT ATTTACA GACTTTTCTATCAAGATCATTAATAATTAG CCTAAAGGGAAACCTTGCCCAAGGAAT	
ENV GENOMIC HERV MDA	(685)	801	880
ENV GENOMIC HERV-K TAN.	(710)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC AC025420	(707)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC AP000776	(710)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC HERV-K8	(291)		
ENV GENOMIC HERV-KI	(710)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV HERV-K AF023261	(701)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GEN AL035086	(496)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC AL035587	(710)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC AC012068	(698)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC AF277315	(707)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC AF027650	(700)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC AC078899	(709)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC HERV-KII	(418)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC AC008813	(729)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC AC012309	(709)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC AL121932	(707)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC AD000090	(723)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GEN AL160008	(543)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC HEU32496	(441)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC AC011467	(474)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC AF235103	(768)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC AC026786	(644)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC AC034203	(750)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC AC018809	(417)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC HERV-KI02 AF164610	(470)	CCCAAGAAATCAAAAAGCCAGAAAGCTTAGTCTGCGAAGATGTGGGTGTATCTGAGTGTAGTACAAACAAATG	
ENV GENOMIC FRAG. AF260253	(1)		
CONSENSUS	(801)	TCCCAAG ATCAAAA A CAGAAGTTTAGTTGGGAAGATGTGGC AATAGTGC GTGATATTACAAAACAAATG	
ENV GENOMIC HERV MDA	(764)	881	960
ENV GENOMIC HERV-K TAN.	(790)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC AC025420	(787)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC AP000776	(790)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC HERV-K8	(291)		
ENV GENOMIC HERV-KI	(790)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV HERV-K AF023261	(701)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GEN AL035086	(576)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC AL035587	(790)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC AC012068	(778)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC AF277315	(787)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC AF027650	(700)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC AC078899	(789)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC HERV-KII	(498)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC AC008813	(809)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC AC012309	(789)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC AL121932	(787)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC AD000090	(803)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GEN AL160008	(623)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC HEU32496	(441)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC AC011467	(554)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC AF235103	(848)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC AC026786	(724)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC AC034203	(830)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC AC018809	(497)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC HERV-KI02 AF164610	(550)	ATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA	ATTTCGAAC
ENV GENOMIC FRAG. AF260253	(1)		
CONSENSUS	(881)	AATTTCGAACCTATTATAGATTTGGGCAACCTGAGGTCATTTCTACCA CACA	ATTTCGAAC

## FIGURE 6 CONTD...

ENV GENOMIC HERV MDA	(820)	961	1040
ENV GENOMIC HERV-K TAN.	(846)	GG CAGAGTCATTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGACGTTATGTAAGTAAAGGCT	
ENV GENOMIC AC025420	(843)	GGAAAACTCAGTCGTTCCAGTTCACAAAG-----TG-----AGTCCAGCTGTTGATAGTCACTTAACAGAAAGTTT	
ENV GENOMIC AP000776	(846)	GGAAAACTCAGTCGTTCCAGTTCACAAAG-----TG-----AGTCCAGCTGTTGATAGTCACTTAACAGAAAGTTT	
ENV GENOMIC HERV-K8	(291)		
ENV GENOMIC HERV-KI	(846)	GGAAAACTCAGTCGTTCCAGTTCACAAAG-----TG-----AGTCCAGCTGTTGATAGTCACTTAACAGAAAGTTT	
ENV HERV-K AF023261	(701)		
ENV GEN AL035086	(632)	GGAAAACTCAGTCGTTCCAGTTCACAAAG-----TG-----AGTCCAGCTGTTGATAGTCACTTAACAGAAAGTTT	
ENV GENOMIC AL035587	(870)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AC012068	(834)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AF277315	(843)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AF027650	(700)		
ENV GENOMIC AC078899	(845)	GGAAAACTCAGTCGTTCCAGTTCACAAAG-----TG-----AGTCCAGCTGTTGATAGTCACTTAACAGAAAGTTT	
ENV GENOMIC HERV-KII	(554)	GGAAAACTCAGTCGTTCCAGTTCACAAAG-----TG-----AGTCCAGCTGTTGATAGTCACTTAACAGAAAGTTT	
ENV GENOMIC AC008813	(865)	GGAAAACTCAGTCGTTCCAGTTCACAAAG-----TG-----AGTCCAGCTGTTGATAGTCACTTAACAGAAAGTTT	
ENV GENOMIC AC012309	(845)	GGAAAACTCAGTCGTTCCAGTTCACAAAG-----TG-----AGTCCAGCTGTTGATAGTCACTTAACAGAAAGTTT	
ENV GENOMIC AL121932	(843)	GGAAAACTCAGTCGTTCCAGTTCACAAAG-----TG-----AGTCCAGCTGTTGATAGTCACTTAACAGAAAGTTT	
ENV GENOMIC AD000090	(859)	GGAAAACTCAGTCGTTCCAGTTCACAAAG-----TG-----AGTCCAGCTGTTGATAGTCACTTAACAGAAAGTTT	
ENV GEN AL160008	(647)		
ENV GENOMIC HEU32496	(441)		
ENV GENOMIC AC011467	(610)	GGAAAACTCAGTCGTTCCAGTTCACAAAG-----TG-----AGTCCAGCTGTTGATAGTCACTTAACAGAAAGTTT	
ENV GENOMIC AF235103	(904)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AC026786	(780)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AC034203	(886)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AC018809	(553)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC HERV-KI02	(606)	GGAAAACTCAGTCGTTCCAGTTCACAAAG-----TG-----AGTCCAGCTGTTGATAGTCACTTAACAGAAAGTTT	
ENV GENOMIC FRAG. AF260253	(1)		
CONSENSUS	(961)	GG CAAACTCA TC TGTC AG GCACAG AGTCCAGCTGTTGATAG GACTTAACAGAAAGT T	
ENV GENOMIC HERV MDA	(900)	1041	1120
ENV GENOMIC HERV-K TAN.	(914)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AC025420	(911)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AP000776	(914)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC HERV-K8	(291)		
ENV GENOMIC HERV-KI	(914)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV HERV-K AF023261	(701)		
ENV GEN AL035086	(700)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AL035587	(950)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AC012068	(914)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AF277315	(923)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AF027650	(700)		
ENV GENOMIC AC078899	(913)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC HERV-KII	(622)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AC008813	(933)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AC012309	(913)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AL121932	(911)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AD000090	(927)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GEN AL160008	(647)		
ENV GENOMIC HEU32496	(441)		
ENV GENOMIC AC011467	(676)		
ENV GENOMIC AF235103	(984)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AC026786	(860)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AC034203	(966)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC AC018809	(621)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC HERV-KI02	(674)	GGCAGAGTCGTTGATGTTACAGGCCCCATCCATCTGGCCCATTAAGCCGCTATGATAGTCACTTAATTTAAAGGCT	
ENV GENOMIC FRAG. AF260253	(1)		
CONSENSUS	(1041)	AGAC AA T A TA AA TTA A TC TCTA CC TGG AATGGG GAAA GGAAT TC C	
ENV GENOMIC HERV MDA	(967)	1121	1200
ENV GENOMIC HERV-K TAN.	(984)		
ENV GENOMIC AC025420	(981)		
ENV GENOMIC AP000776	(984)		
ENV GENOMIC HERV-K8	(291)		
ENV GENOMIC HERV-KI	(984)		
ENV HERV-K AF023261	(701)		
ENV GEN AL035086	(770)		
ENV GENOMIC AL035587	(1017)		
ENV GENOMIC AC012068	(981)		
ENV GENOMIC AF277315	(990)		
ENV GENOMIC AF027650	(700)		
ENV GENOMIC AC078899	(993)	TTTCAGGGAAGACTCCAAGATGGCAATCGCCACCTGGATACCTTAACCTCAGCATTTCCGGGTTTCACTTTCTGTTCCCA	
ENV GENOMIC HERV-KII	(692)		
ENV GENOMIC AC008813	(1003)		
ENV GENOMIC AC012309	(983)		
ENV GENOMIC AL121932	(981)		
ENV GENOMIC AD000090	(997)		
ENV GEN AL160008	(647)		
ENV GENOMIC HEU32496	(441)		
ENV GENOMIC AC011467	(683)		
ENV GENOMIC AF235103	(1051)		
ENV GENOMIC AC026786	(927)		
ENV GENOMIC AC034203	(1033)		
ENV GENOMIC AC018809	(691)		
ENV GENOMIC HERV-KI02	(744)		
ENV GENOMIC FRAG. AF260253	(1)		
CONSENSUS	(1121)		

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**FIGURE 6 CONTD...**

		1201		1280
ENV GENOMIC HERV MDA	(967)	-----		
ENV GENOMIC HERV-K TAN.	(984)	-----		
ENV GENOMIC AC025420	(981)	-----		
ENV GENOMIC AP000776	(984)	-----		
ENV GENOMIC HERV-K8	(291)	-----		
ENV GENOMIC HERV-KI	(984)	-----		
ENV HERV-K AF023261	(701)	-----		
ENV GEN AL035086	(770)	-----		
ENV GENOMIC AL035587	(1017)	-----		
ENV GENOMIC AC012068	(981)	-----		
ENV GENOMIC AF277315	(990)	-----		
ENV GENOMIC AF027650	(700)	-----		
ENV GENOMIC AC078899	(1073)	CCACCCCGACTAACGACATGCCCACTAGGGCGTGTCACTCAGAAGTGTGAAACTCAACCGATCCCGCCCTACCCCG		
ENV GENOMIC HERV-KII	(692)	-----		
ENV GENOMIC AC008813	(1003)	-----		
ENV GENOMIC AC012309	(983)	-----		
ENV GENOMIC AL121932	(981)	-----		
ENV GENOMIC AD000090	(997)	-----		
ENV GEN AL160008	(647)	-----		
ENV GENOMIC HEU32496	(441)	-----		
ENV GENOMIC AC011467	(683)	-----		
ENV GENOMIC AF235103	(1051)	-----		
ENV GENOMIC AC026786	(927)	-----		
ENV GENOMIC AC034203	(1033)	-----		
ENV GENOMIC AC018809	(691)	-----		
ENV GENOMIC HERV-KI02 AF164610	(744)	-----		
ENV GENOMIC FRAG. AF260253	(1)	-----		
CONSENSUS	(1201)	-----		
		1281		1360
ENV GENOMIC HERV MDA	(967)	-----		
ENV GENOMIC HERV-K TAN.	(984)	-----		
ENV GENOMIC AC025420	(981)	-----		
ENV GENOMIC AP000776	(984)	-----		
ENV GENOMIC HERV-K8	(291)	-----		
ENV GENOMIC HERV-KI	(984)	-----		
ENV HERV-K AF023261	(701)	-----		
ENV GEN AL035086	(770)	-----		
ENV GENOMIC AL035587	(1017)	-----		
ENV GENOMIC AC012068	(981)	-----		
ENV GENOMIC AF277315	(990)	-----		
ENV GENOMIC AF027650	(700)	-----		
ENV GENOMIC AC078899	(1153)	ACCACTCCTCACCCAGCATCCATAAAAGCGCGCTGCACCTTTGCGCACAGCGTGACTTCCCTGGCGGACCACTGAACCTC		
ENV GENOMIC HERV-KII	(692)	-----		
ENV GENOMIC AC008813	(1003)	-----		
ENV GENOMIC AC012309	(983)	-----		
ENV GENOMIC AL121932	(981)	-----		
ENV GENOMIC AD000090	(997)	-----		
ENV GEN AL160008	(647)	-----		
ENV GENOMIC HEU32496	(441)	-----		
ENV GENOMIC AC011467	(683)	-----		
ENV GENOMIC AF235103	(1051)	-----		
ENV GENOMIC AC026786	(927)	-----		
ENV GENOMIC AC034203	(1033)	-----		
ENV GENOMIC AC018809	(691)	-----		
ENV GENOMIC HERV-KI02 AF164610	(744)	-----		
ENV GENOMIC FRAG. AF260253	(1)	-----		
CONSENSUS	(1281)	-----		
		1361		1440
ENV GENOMIC HERV MDA	(967)	-----		
ENV GENOMIC HERV-K TAN.	(984)	-----		
ENV GENOMIC AC025420	(981)	-----		
ENV GENOMIC AP000776	(984)	-----		
ENV GENOMIC HERV-K8	(291)	-----		
ENV GENOMIC HERV-KI	(984)	-----		
ENV HERV-K AF023261	(701)	-----		
ENV GEN AL035086	(770)	-----		
ENV GENOMIC AL035587	(1017)	-----		
ENV GENOMIC AC012068	(981)	-----		
ENV GENOMIC AF277315	(990)	-----		
ENV GENOMIC AF027650	(700)	-----		
ENV GENOMIC AC078899	(1233)	ACCGGAGAGCTCAATAAAGAAAGATTTTGCGCTCTTTGTCTTGCGCTCTTGGCCTTATTGATCCACGGTGCCCTTTCCATTG		
ENV GENOMIC HERV-KII	(692)	-----		
ENV GENOMIC AC008813	(1003)	-----		
ENV GENOMIC AC012309	(983)	-----		
ENV GENOMIC AL121932	(981)	-----		
ENV GENOMIC AD000090	(997)	-----		
ENV GEN AL160008	(647)	-----		
ENV GENOMIC HEU32496	(441)	-----		
ENV GENOMIC AC011467	(683)	-----		
ENV GENOMIC AF235103	(1051)	-----		
ENV GENOMIC AC026786	(927)	-----		
ENV GENOMIC AC034203	(1033)	-----		
ENV GENOMIC AC018809	(691)	-----		
ENV GENOMIC HERV-KI02 AF164610	(744)	-----		
ENV GENOMIC FRAG. AF260253	(1)	-----		
CONSENSUS	(1361)	-----		

Footnotes: 1095-1100



FIGURE 6 CONTD...

ENV GENOMIC HERV MDA	(967)	1441	1520
ENV GENOMIC HERV-K TAN.	(984)	-----	-----
ENV GENOMIC AC025420	(981)	-----	-----
ENV GENOMIC AP000776	(984)	-----	-----
ENV GENOMIC HERV-K8	(291)	-----	-----
ENV GENOMIC HERV-KI	(984)	-----	-----
ENV HERV-K AF023261	(701)	-----	-----
ENV GEN AL035086	(770)	-----	-----
ENV GENOMIC AL035587	(1017)	-----	-----
ENV GENOMIC AC012068	(981)	-----	-----
ENV GENOMIC AF277315	(990)	-----	-----
ENV GENOMIC AF027650	(700)	-----	-----
ENV GENOMIC AC078899	(1313)	-----	-----
ENV GENOMIC HERV-KII	(692)	-----	-----
ENV GENOMIC AC008813	(1003)	-----	-----
ENV GENOMIC AC012309	(983)	-----	-----
ENV GENOMIC AL121932	(981)	-----	-----
ENV GENOMIC AD000090	(997)	-----	-----
ENV GEN AL160008	(647)	-----	-----
ENV GENOMIC HEU32496	(441)	-----	-----
ENV GENOMIC AC011467	(683)	-----	-----
ENV GENOMIC AF235103	(1051)	-----	-----
ENV GENOMIC AC026786	(927)	-----	-----
ENV GENOMIC AC034203	(1033)	-----	-----
ENV GENOMIC AC018809	(691)	-----	-----
ENV GENOMIC HERV-K102 AF164610	(744)	-----	-----
ENV GENOMIC FRAG. AF260253	(1)	-----	-----
CONSENSUS	(1441)	CC GACCAAA TA T AGTCTGTT CTGTCCTGAACATCCAGAATTATGGA GCTTACTGTGGCC	
ENV GENOMIC HERV MDA	(1031)	1521	1600
ENV GENOMIC HERV-K TAN.	(1053)	-----	-----
ENV GENOMIC AC025420	(1050)	-----	-----
ENV GENOMIC AP000776	(1053)	-----	-----
ENV GENOMIC HERV-K8	(291)	-----	-----
ENV GENOMIC HERV-KI	(1053)	-----	-----
ENV HERV-K AF023261	(701)	-----	-----
ENV GEN AL035086	(839)	-----	-----
ENV GENOMIC AL035587	(1086)	-----	-----
ENV GENOMIC AC012068	(1046)	-----	-----
ENV GENOMIC AF277315	(1059)	-----	-----
ENV GENOMIC AF027650	(700)	-----	-----
ENV GENOMIC AC078899	(1393)	-----	-----
ENV GENOMIC HERV-KII	(757)	-----	-----
ENV GENOMIC AC008813	(1072)	-----	-----
ENV GENOMIC AC012309	(1052)	-----	-----
ENV GENOMIC AL121932	(1050)	-----	-----
ENV GENOMIC AD000090	(1066)	-----	-----
ENV GEN AL160008	(647)	-----	-----
ENV GENOMIC HEU32496	(441)	-----	-----
ENV GENOMIC AC011467	(727)	-----	-----
ENV GENOMIC AF235103	(1120)	-----	-----
ENV GENOMIC AC026786	(996)	-----	-----
ENV GENOMIC AC034203	(1102)	-----	-----
ENV GENOMIC AC018809	(760)	-----	-----
ENV GENOMIC HERV-K102 AF164610	(813)	-----	-----
ENV GENOMIC FRAG. AF260253	(1)	-----	-----
CONSENSUS	(1521)	TCA ACCACATTAGAAATTTGGTCTGGAATCAA CT TAGAACAAGAGATC TAAGCCAT TTATACTATC ACCTAA	
ENV GENOMIC HERV MDA	(1110)	1601	1680
ENV GENOMIC HERV-K TAN.	(1132)	-----	-----
ENV GENOMIC AC025420	(1129)	-----	-----
ENV GENOMIC AP000776	(1132)	-----	-----
ENV GENOMIC HERV-K8	(291)	-----	-----
ENV GENOMIC HERV-KI	(1132)	-----	-----
ENV HERV-K AF023261	(701)	-----	-----
ENV GEN AL035086	(918)	-----	-----
ENV GENOMIC AL035587	(1165)	-----	-----
ENV GENOMIC AC012068	(1125)	-----	-----
ENV GENOMIC AF277315	(1138)	-----	-----
ENV GENOMIC AF027650	(700)	-----	-----
ENV GENOMIC AC078899	(1472)	-----	-----
ENV GENOMIC HERV-KII	(836)	-----	-----
ENV GENOMIC AC008813	(1151)	-----	-----
ENV GENOMIC AC012309	(1131)	-----	-----
ENV GENOMIC AL121932	(1130)	-----	-----
ENV GENOMIC AD000090	(1143)	-----	-----
ENV GEN AL160008	(647)	-----	-----
ENV GENOMIC HEU32496	(441)	-----	-----
ENV GENOMIC AC011467	(806)	-----	-----
ENV GENOMIC AF235103	(1199)	-----	-----
ENV GENOMIC AC026786	(1075)	-----	-----
ENV GENOMIC AC034203	(1181)	-----	-----
ENV GENOMIC AC018809	(839)	-----	-----
ENV GENOMIC HERV-K102 AF164610	(892)	-----	-----
ENV GENOMIC FRAG. AF260253	(1)	-----	-----
CONSENSUS	(1601)	ATTCCAGTCT ACA TTCTTT CAAGTTG GTAAGGCCCTTATAT GCTAGTTGTAGGAATA TAGTATTAA	

[illegible]

## FIGURE 6 CONTD...

ENV GENOMIC HERV MDA	(1428)	1921	2000
ENV GENOMIC HERV-K TAN.	(1447)		
ENV GENOMIC AC025420	(1444)		
ENV GENOMIC AP000776	(1447)		
ENV GENOMIC HERV-K8	(291)		
ENV GENOMIC HERV-KI	(1447)		
ENV HERV-K AF023261	(701)		
ENV GEN AL035086	(1233)		
ENV GENOMIC AL035587	(1475)		
ENV GENOMIC AC012068	(1440)		
ENV GENOMIC AF277315	(1453)		
ENV GENOMIC AF027650	(700)		
ENV GENOMIC AC078899	(1786)		
ENV GENOMIC HERV-KII	(1151)		
ENV GENOMIC AC008813	(1238)		
ENV GENOMIC AC012309	(1448)		
ENV GENOMIC AL121932	(1444)		
ENV GENOMIC AD000090	(1458)		
ENV GEN AL160008	(647)		
ENV GENOMIC HEU32496	(441)		
ENV GENOMIC AC011467	(1121)		
ENV GENOMIC AF235103	(1514)		
ENV GENOMIC AC026786	(1390)		
ENV GENOMIC AC034203	(1403)		
ENV GENOMIC AC018809	(1151)		
ENV GENOMIC HERV-K102 AF164610	(1207)		
ENV GENOMIC FRAG. AF260253	(1)		
CONSENSUS	(1921)	T ATTGCACTCACAGCTAC GCTCG G GC GGA TTGC TT CACTC TCTGTTCA C G A A T TGT AAT AT	
ENV GENOMIC HERV MDA	(1508)	2001	2080
ENV GENOMIC HERV-K TAN.	(1527)		
ENV GENOMIC AC025420	(1524)		
ENV GENOMIC AP000776	(1527)		
ENV GENOMIC HERV-K8	(291)		
ENV GENOMIC HERV-KI	(1527)		
ENV HERV-K AF023261	(701)		
ENV GEN AL035086	(1313)		
ENV GENOMIC AL035587	(1555)		
ENV GENOMIC AC012068	(1520)		
ENV GENOMIC AF277315	(1533)		
ENV GENOMIC AF027650	(700)		
ENV GENOMIC AC078899	(1788)		
ENV GENOMIC HERV-KII	(1231)		
ENV GENOMIC AC008813	(1238)		
ENV GENOMIC AC012309	(1528)		
ENV GENOMIC AL121932	(1524)		
ENV GENOMIC AD000090	(1538)		
ENV GEN AL160008	(647)		
ENV GENOMIC HEU32496	(441)		
ENV GENOMIC AC011467	(1201)		
ENV GENOMIC AF235103	(1594)		
ENV GENOMIC AC026786	(1470)		
ENV GENOMIC AC034203	(1403)		
ENV GENOMIC AC018809	(1231)		
ENV GENOMIC HERV-K102 AF164610	(1287)		
ENV GENOMIC FRAG. AF260253	(1)		
CONSENSUS	(2001)	TGGCAAAA AA TTC CAA ATTGTGGAATTC CA A C AT GATCAAAAATTGGCAAAATCAAATTAATGATCTT	
ENV GENOMIC HERV MDA	(1586)	2081	2160
ENV GENOMIC HERV-K TAN.	(1605)		
ENV GENOMIC AC025420	(1602)		
ENV GENOMIC AP000776	(1605)		
ENV GENOMIC HERV-K8	(291)		
ENV GENOMIC HERV-KI	(1605)		
ENV HERV-K AF023261	(701)		
ENV GEN AL035086	(1392)		
ENV GENOMIC AL035587	(1633)		
ENV GENOMIC AC012068	(1598)		
ENV GENOMIC AF277315	(1611)		
ENV GENOMIC AF027650	(700)		
ENV GENOMIC AC078899	(1864)		
ENV GENOMIC HERV-KII	(1309)		
ENV GENOMIC AC008813	(1238)		
ENV GENOMIC AC012309	(1606)		
ENV GENOMIC AL121932	(1538)		
ENV GENOMIC AD000090	(1616)		
ENV GEN AL160008	(647)		
ENV GENOMIC HEU32496	(441)		
ENV GENOMIC AC011467	(1279)		
ENV GENOMIC AF235103	(1672)		
ENV GENOMIC AC026786	(1548)		
ENV GENOMIC AC034203	(1403)		
ENV GENOMIC AC018809	(1309)		
ENV GENOMIC HERV-K102 AF164610	(1365)		
ENV GENOMIC FRAG. AF260253	(1)		
CONSENSUS	(2081)	AGACAACTGTCATTGGATGGGAGA AG CTCATGAGCTT GAA ATC TTT CAGTTACA TGTGACTGGAAATACGTC	

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ENV GENOMIC HERV MDA (1664) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC HERV-K TAN. (1685) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC AC025420 (1682) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC AP000776 (1685) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC HERV-K8 (291) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC HERV-KI (1685) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV HERV-K AF023261 (701) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GEN AL035086 (1472) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC AL035587 (1713) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC AC012068 (1678) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC AF277315 (1691) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC AF027650 (700) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC AC078899 (1944) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC HERV-KII (1389) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC AC008813 (1238) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC AC012309 (1682) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC AL121932 (1538) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC AD000090 (1696) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GEN AL160008 (647) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC HEU32496 (441) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC AC011467 (1359) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC AF235103 (1752) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC AC026786 (1626) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC AC034203 (1403) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC AC018809 (1389) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC HERV-KJ02 AF164610 (1445) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

ENV GENOMIC FRAG. AF260253 (1) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

CONSENSUS (2161) AGAATTTTGTATTACACCGCAAATTTATAATGAGTCTGAGCATCACTGGGACATGGTTAGTGCATCTCTACAGGAGGAG

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ENV GENOMIC HERV MDA (1744) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC HERV-K TAN. (1765) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC AC025420 (1762) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC AP000776 (1765) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC HERV-K8 (291) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC HERV-KI (1765) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV HERV-K AF023261 (701) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GEN AL035086 (1552) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC AL035587 (1793) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC AC012068 (1758) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC AF277315 (1771) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC AF027650 (700) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC AC078899 (2024) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC HERV-KII (1469) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC AC008813 (1238) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC AC012309 (1762) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC AL121932 (1538) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC AD000090 (1776) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GEN AL160008 (647) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC HEU32496 (441) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC AC011467 (1439) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC AF235103 (1832) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC AC026786 (1706) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC AC034203 (1403) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC AC018809 (1468) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC HERV-KJ02 AF164610 (1525) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

ENV GENOMIC FRAG. AF260253 (29) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

CONSENSUS (2241) AGAATAATCTCTAGCTTAGACATTTTCAAAATTAAGAAGATGCCCCACCAAGAAATATTTTTCAGGCAATCAAAAGCCCAT

2321

ENV GENOMIC HERV MDA (1824) TAAATTTGGTGCCAGGAACCTGAGGCAATTCAGGAGTCTGATGAGGCTTCAAAATCTTAACCCCTGCTCACTTGGGTTAA

ENV GENOMIC HERV-K TAN. (1831) TAAATTTGGTGCCAGGAACCTGAGGCAATTCAGGAGTCTGATGAGGCTTCAAAATCTTAACCCCTGCTCACTTGGGTTAA

ENV GENOMIC AC025420 (1828) TAAATTTGGTGCCAGGAACCTGAGGCAATTCAGGAGTCTGATGAGGCTTCAAAATCTTAACCCCTGCTCACTTGGGTTAA

ENV GENOMIC AP000776 (1831) TAAATTTGGTGCCAGGAACCTGAGGCAATTCAGGAGTCTGATGAGGCTTCAAAATCTTAACCCCTGCTCACTTGGGTTAA

ENV GENOMIC HERV-K8 (291) TAAATTTGGTGCCAGGAACCTGAGGCAATTCAGGAGTCTGATGAGGCTTCAAAATCTTAACCCCTGCTCACTTGGGTTAA

ENV GENOMIC HERV-KI (1831) TAAATTTGGTGCCAGGAACCTGAGGCAATTCAGGAGTCTGATGAGGCTTCAAAATCTTAACCCCTGCTCACTTGGGTTAA

ENV HERV-K AF023261 (701) TAAATTTGGTGCCAGGAACCTGAGGCAATTCAGGAGTCTGATGAGGCTTCAAAATCTTAACCCCTGCTCACTTGGGTTAA

ENV GEN AL035086 (1618) TAAATTTGGTGCCAGGAACCTGAGGCAATTCAGGAGTCTGATGAGGCTTCAAAATCTTAACCCCTGCTCACTTGGGTTAA

ENV GENOMIC AL035587 (1859) TAAAT

ENV GENOMIC HERV MDA (1904) AGATCAAGAGTATCTCATTTGTAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC HERV-K TAN. (1911) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC AC025420 (1908) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC AP000776 (1911) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC HERV-K8 (291) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC HERV-KI (1906) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV HERV-K AF023261 (701) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GEN AL035086 (1698) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC AL035587 (1933) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC AC012068 (1904) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC AF277315 (1917) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC AF027650 (700) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC AC078899 (2170) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC HERV-KII (1615) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC AC008813 (1238) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC AC012309 (1905) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC AL121932 (1538) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC AD000090 (1922) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GEN AL160008 (647) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC HEU32496 (441) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC AC011467 (1585) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC AF235103 (1978) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC AC026786 (1852) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC AC034203 (1403) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC AC018809 (1614) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC HERV-KI02 AF164610 (1671) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
ENV GENOMIC FRAG. AF260253 (151) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT  
CONSENSUS (2401) ACCATTCGAGTACTATGATTAATAATTCATATTATTCCTTTAGCCCTGTCGTCTCTTGT AGTCTCAGAGTGT

2481 2560  
ENV GENOMIC HERV MDA (1982) ATCTCAGAGTCTCAAGAGACAGGACCGAGAGAAATGGCCATAGTACGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC HERV-K TAN. (1989) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC AC025420 (1986) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC AP000776 (1989) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC HERV-K8 (291) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC HERV-KI (1984) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV HERV-K AF023261 (701) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GEN AL035086 (1776) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC AL035587 (2011) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC AC012068 (1982) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC AF277315 (1995) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC AF027650 (700) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC AC078899 (2248) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC HERV-KII (1693) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC AC008813 (1238) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC AC012309 (1983) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC AL121932 (1538) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC AD000090 (2000) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GEN AL160008 (647) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC HEU32496 (441) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC AC011467 (1663) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC AF235103 (2056) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC AC026786 (1930) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC AC034203 (1403) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC AC018809 (1694) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC HERV-KI02 AF164610 (1749) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
ENV GENOMIC FRAG. AF260253 (228) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG  
CONSENSUS (2481) ACCGAAAGCTCTCGAAGAGACAGGACCGTGGAGAGAGGGCCATGATGAGATGTTGGTTTGTGAAAGAGAAAGGGGG

2561 2640  
ENV GENOMIC HERV MDA (2062) GATTTGTAAGGAAAGGAGAGATCAGTCTTACTTGTCTTACTAGTAGAGTGGAGAGACATTAAGAGCTCCATT  
ENV GENOMIC HERV-K TAN. (2069) GATTTGTAAGGAAAGGAGAGATCAGTCTTACTTGTCTTACTAGTAGAGTGGAGAGACATTAAGAGCTCCATT  
ENV GENOMIC AC025420 (2066) GATTTGTAAGGAAAGGAGAGATCAGTCTTACTTGTCTTACTAGTAGAGTGGAGAGACATTAAGAGCTCCATT  
ENV GENOMIC AP000776 (2069) GATTTGTAAGGAAAGGAGAGATCAGTCTTACTTGTCTTACTAGTAGAGTGGAGAGACATTAAGAGCTCCATT  
ENV GENOMIC HERV-K8 (291) GATTTGTAAGGAAAGGAGAGATCAGTCTTACTTGTCTTACTAGTAGAGTGGAGAGACATTAAGAGCTCCATT  
ENV GENOMIC HERV-KI (2064) GATTTGTAAGGAAAGGAGAGATCAGTCTTACTTGTCTTACTAGTAGAGTGGAGAGACATTAAGAGCTCCATT  
ENV HERV-K AF023261 (701) GATTTGTAAGGAAAGGAGAGATCAGTCTTACTTGTCTTACTAGTAGAGTGGAGAGACATTAAGAGCTCCATT  
ENV GEN AL035086 (1856) GATTTGTAAGGAAAGGAGAGATCAGTCTTACTTGTCTTACTAGTAGAGTGGAGAGACATTAAGAGCTCCATT  
ENV GENOMIC AL035587 (2086) GATTTGTAAGGAAAGGAGAGATCAGTCTTACTTGTCTTACTAGTAGAGTGGAGAGACATTAAGAGCTCCATT  
ENV GENOMIC AC012068 (2062) GATTTGTAAGGAAAGGAGAGATCAGTCTTACTTGTCTTACTAGTAGAGTGGAGAGACATTAAGAGCTCCATT  
ENV GENOMIC AF277315 (2075) GATTTGTAAGGAAAGGAGAGATCAGTCTTACTTGTCTTACTAGTAGAGTGGAGAGACATTAAGAGCTCCATT  
ENV GENOMIC AF027650 (700) GATTTGTAAGGAAAGGAGAGATCAGTCTTACTTGTCTTACTAGTAGAGTGGAGAGACATTAAGAGCTCCATT  
ENV GENOMIC AC078899 (2328) GATTTGTAAGGAAAGGAGAGATCAGTCTTACTTGTCTTACTAGTAGAGTGGAGAGACATTAAGAGCTCCATT  
ENV GENOMIC HERV-KII (1773) GATTTGTAAGGAAAGGAGAGATCAGTCTTACTTGTCTTACTAGTAGAGTGGAGAGACATTAAGAGCTCCATT  
ENV GENOMIC AC008813 (1238) GATTTGTAAGGAAAGGAGAGATCAGTCTTACTTGTCTTACTAGTAGAGTGGAGAG



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FIGURE 6 contd...

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2641
ENV GENOMIC HERV MDA (2136) AGATCTGTACTAA-----
ENV GENOMIC HERV-K TAN. (2146) AGTTATGTACTAA-----
ENV GENOMIC AC025420 (2143) AGTTATGTACTAA-----
ENV GENOMIC AP000776 (2146) AGTTATGTACTAA-----
ENV GENOMIC HERV-K8 (291) -----
ENV GENOMIC HERV-KI (2141) AGTTATGTACTAA-----
ENV HERV-K AF023261 (701) -----
ENV GEN AL035086 (1931) AGATCTGTACTAA-----
ENV GENOMIC AL035587 (2146) -----
ENV GENOMIC AC012068 (2138) AGAAAAAGAGCTGTACTTTGAACAATT-----
ENV GENOMIC AF277315 (2152) AGACCGT-----
ENV GENOMIC AF027650 (700) -----
ENV GENOMIC AC078899 (2405) AGTTCTGTAGTAAGAGAAATCTTCTGCCTTGAGATGCTGTAA-----
ENV GENOMIC HERV-KI1 (1850) AGTTCTGTACTAA-----
ENV GENOMIC AC008813 (1238) -----
ENV GENOMIC AC012309 (2133) AGTTCTGTAGCAAG-----
ENV GENOMIC AL121932 (1538) -----
ENV GENOMIC AD000090 (2157) AGTTCTGTACTAA-----
ENV GEN AL160008 (647) -----
ENV GENOMIC HEU32496 (441) -----
ENV GENOMIC AC011467 (1699) -----
ENV GENOMIC AF235103 (2212) AGAAAAAGAGCTGTACTTTGAACAATTGCTTGTCTCAGATGTTGTTAATTTGTAGTTTT-----
ENV GENOMIC AC026786 (2086) AGAAAAAGAGCTGTACTTTAAACAATTGCTTGTCTCAGATGTTGTTAATTTGTAGCTTTCCCGAGCC-----
ENV GENOMIC AC034203 (1403) -----
ENV GENOMIC AC018809 (1846) AGCTCTGTAGTAAG-----
ENV GENOMIC HERV-KI02 AF164610 (1906) AGTTATGTGTAAAGAAAAATCTT-----
ENV GENOMIC FRAG. AF260253 (385) AGTTCTGTACTAA-----
CONSENSUS (2641) TG TGTAC
2707
```

FIGURE 7

```

1
GI_4185938_EMB_CAA76878.1_ (1) -----MGQTKSKIISKYASYLSFIKILLKRGVVKVSTKNLIKLFQIIEQFCPWFPEQGT
GI_4185942_EMB_CAA76881.1_ (1) -----MGQTKSKIISKYASYLSFIKILLKRGVVKVSTKNLIKLFQIIEQFCPWFPEQGT
GI_4185946_EMB_CAA76884.1_ (1) -----MGQTKSKIISKYASYLSFIKILLKRGVVKVSTKNLIKLFQIIEQFCPWFPEQGT
GI_5931704_EMB_CAB56602.1_ (1) -----MGQTKSKIISKYASYLSFIKILLKRGVVKVSTKNLIKLFQIIEQFCPWFPEQGT
GAG OF AB047240 (1) -----MGQTKSKTKSYASYLSFIKILLKRGVVKVSTKNLIKLFQIIEQFCPWFPEQGT
TRANSLATION OF ORF99 (1) YKAGLGQTKSKTKSYASYLSFIKILLKRGVVKVSTKNLIKLFQIIEQFCPWFPEQGT
TRANSLATION OF G226TOP-LINK (1) -----
TRANSLATION OF G591TOP-LINK (1) -----
TRANSLATION OF LNCAP-GAG (1) -----MGQTKSKTKSYASYLSFIKILLKRGVVKVSTKNLIKLFQIIEQFCPWFPEQGT
GAG106-135 (1) -----
GAG186-215 (1) -----
GAG46-75 (1) -----CPWFPEQGT
PDG-G1 (1) -----
PGD-G2 (1) -----
PGD-G3 (1) -----
CONSENSUS (1) CPWFPEQG L
60
```

```

61
GI_4185938_EMB_CAA76878.1_ (56) DLKDWKRIGKELKQAGRKGNIPLTVWNDWAIKAALEPFQTEEDSVSVSDAPGSCI IDC
GI_4185942_EMB_CAA76881.1_ (56) DLKDWKRIGKELKQAGRKGNIPLTVWNDWAIKAALEPFQTEEDSVSVSDAPGSCI IDC
GI_4185946_EMB_CAA76884.1_ (56) DLKDWKRIGKELKQAGRKGNIPLTVWNDWAIKAALEPFQTEEDSVSVSDAPGSCI IDC
GI_5931704_EMB_CAB56602.1_ (54) DLEDWKRIGKELKQAGRKGNIPLTVWNDWPIKAALEPFQTEEDSVSVSDAPGSCI IDC
GAG OF AB047240 (56) DLKDWKRIGKELKQAGRKGNIPLTVWNDWAIKAALEPFQTEEDSVSVSDAPGSCI IDC
TRANSLATION OF ORF99 (61) DLKDWKRIGKELKQAGRKGNIPLTVWNDWAIKAALEPFQTEEDSVSVSDAPGSCI IDC
TRANSLATION OF G226TOP-LINK (1) -----
TRANSLATION OF G591TOP-LINK (1) -----
TRANSLATION OF LNCAP-GAG (56) DLKDWKRIGKELKQAGRKGNIPLTVWNDWAIKAALEPFQTEEDSVSVSDAPGSCI IDC
GAG106-135 (1) -----DAPGSCI IDC
GAG186-215 (1) -----
GAG46-75 (11) DLKDWKRIGKELKQAGRKGNIPLTVWNDWAIKAALEPFQTEEDSVSVSDAPGSCI IDC
PDG-G1 (1) ---DWKRIGKELKQAGRKGNIPLTVWNDWAIKAALEPFQTEEDSVSVSDAPGSCI IDC
PGD-G2 (1) -----
PGD-G3 (1) -----
CONSENSUS (61) DL DWKRIG ELKQAGRKGNIPLTVWNDWAIKAALEPFQTEEDSVSVSDAPGSCI IDC
120
```

## FIGURE 7 CONTD...

GI_4185938_EMB_CAA76878.1_	(116)	NENTR	KKSQKETEGHCEYVAEPVMAQSTQNVNDYNQLQEVIYPETLKLEGKGPPELVGPSE	121	180
GI_4185942_EMB_CAA76881.1_	(116)	NENTR	KKSQKETESLHCEYVAEPVMAQSTQNVNDYNQLQEVIYPETLKLEGKGPPELVGPSE		
GI_4185946_EMB_CAA76884.1_	(116)	NENTR	KKSQKETEGHCEYVAEPVMAQSTQNVNDYNQLQEVIYPETLKLEGKGPPELVGPSE		
GI_5931704_EMB_CAB56602.1_	(113)	NEKTR	KKSQKETETLHCEYVAEPLMAQSTQNVNDYNQLQEVIYPETLKLEGKGPPELVGPSE		
GAG OF AB047240	(116)	NEKTG	KKSQKETESLHCEYVTEPVMAQSTQNVNDYNQLQGVYYPETLKLEGKGPPELVGPSE		
TRANSLATION OF ORF99	(121)	NEKTG	KKSQKETESLHCEYVTEPVMAQSTQNVNDYNQLQGVYYPETLKLEGKGPPELVGPSE		
TRANSLATION OF G226TOP-LINK	(1)		-----		
TRANSLATION OF G591TOP-LINK	(1)		-----		
TRANSLATION OF LNCAP-GAG	(116)	NEKTG	KKSQKETESLHCEYVTEPVMAQSTQNVNDYNQLQGVYYPETLKLEGKGPPELVGPSE		
GAG106-135	(11)	NENTR	KKSQKETEGHCEYV-----		
GAG186-215	(1)		-----		
GAG46-75	(31)		-----		
PDG-G1	(17)		-----		
PGD-G2	(1)		-----		
PGD-G3	(1)		-----		
CONSENSUS	(121)	NE T	KKSQKETE LHCEYV		
GI_4185938_EMB_CAA76878.1_	(176)	SKPRGTSPLPAGQVPVTLQPQKQV	ENKTQPPVAYQYWPPAELQYRPPESQYGYPGMPP	181	240
GI_4185942_EMB_CAA76881.1_	(176)	SKPRGTSRLPAGQVPVTLQPQKQV	ENKTQPPVAYQYWPPAELQYRPPESQYGYPGMPP		
GI_4185946_EMB_CAA76884.1_	(176)	SKPRGTSPLPAGQVPVTLQPQKQV	ENKTQPPVAYQYWPPAELQYRPPESQYGYPGMPP		
GI_5931704_EMB_CAB56602.1_	(173)	SKPRGPSPLSAGQVTVTLQPQKQV	ENKTQLPVAYQYWPPAELQYRPPESQYGYLGMPP		
GAG OF AB047240	(176)	SKPRGPSPLPAGQVPVTLQPQKQV	ENKTQPPVAYQYWPPAELQYRPPESQYGYPGMPP		
TRANSLATION OF ORF99	(181)	SKPRGPSPLPAGQVPVTLQPQKQV	ENKTQPPVAYQYWPPAELQYRPPESQYGYPGMPP		
TRANSLATION OF G226TOP-LINK	(1)		-----SQYGYPGMPP		
TRANSLATION OF G591TOP-LINK	(1)		-----		
TRANSLATION OF LNCAP-GAG	(176)	SKPRGPSPLPAGQVPVTLQPQKQV	ENKTQPPVAYQYWPPAELQYRPPESQYGYPGMPP		
GAG106-135	(31)		-----		
GAG186-215	(1)		-----AGQVPVTLQPQKQV		
GAG46-75	(31)		-----		
PDG-G1	(17)		-----		
PGD-G2	(1)		-----		
PGD-G3	(1)		-----		
CONSENSUS	(181)	AGQV	VTLPQ QVKENKTQ PVAYQYWPP SQYGY GMPP		
GI_4185938_EMB_CAA76878.1_	(236)	APQGRAPYPQPPTTRLNPTAPPSRQGSKLHEIIDKSRKEGDT	EAQFPVTLLEPMPPEGEA	241	300
GI_4185942_EMB_CAA76881.1_	(236)	APQGRAPYPQPPTTRLNPTAPPSRQGSKLHEIIDKSRKEGDT	EAQFPVTLLEPMPPEGEA		
GI_4185946_EMB_CAA76884.1_	(236)	APQGRAPYPQPPTTRLNPTAPPSRQGSKLHEIIDKSRKEGDT	EAQFPVTLLEPMPPEGEA		
GI_5931704_EMB_CAB56602.1_	(233)	APQDREYPYPQPPTTRQCYGTT	-----		
GAG OF AB047240	(236)	ALQGRAPYPQPPTVRLNPTASRSGQGGTLHAVIDEARKQGDLEAWRFLVLQLVQAGEET			
TRANSLATION OF ORF99	(241)	ALQGRAPYPQPPTVRLNPTASRSGQGGTLHAVIDEARKQGDLEAWRFLVLQLVQAGEET			
TRANSLATION OF G226TOP-LINK	(11)	APQGRAPYPQPPTTRLNPTA	-----		
TRANSLATION OF G591TOP-LINK	(1)		-----		
TRANSLATION OF LNCAP-GAG	(236)	ALQGRAPYPQPPTVRLNPTASRSGQGGTLHAVIDEARKQGDLEAWRFLVLQLVQAGEET			
GAG106-135	(31)		-----		
GAG186-215	(31)		-----		
GAG46-75	(31)		-----		
PDG-G1	(17)		-----		
PGD-G2	(1)		-----SKLHEIIDKSRKEGDT		
PGD-G3	(1)		-----		
CONSENSUS	(241)	A Q R	PYPQPPT R		
GI_4185938_EMB_CAA76878.1_	(296)	QEGEPPTVEARYKSFISIKLLKDMKEGVKQYGNPSPYMRLLDSIAHGHRILIPYDWEILAK		301	360
GI_4185942_EMB_CAA76881.1_	(296)	QEGEPPTVEARYKSFISIKLLKDMKEGVKQYGNPSPYMRLLDSIAHGHRILIPYDWEILAK			
GI_4185946_EMB_CAA76884.1_	(296)	QEGEPPTVEARYKSFISIKLLKDMKEGVKQYGNPSPYMRLLDSIAHGHRILIPYDWEILAK			
GI_5931704_EMB_CAB56602.1_	(254)	QEGEPPTVEARYKSFISIKLLKDMKEGVKQYGNPSPYMRLLDSIAHGHRILIPYDWEILAK			
GAG OF AB047240	(296)	QVGAPARAETRCPEFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGHRILIPYDWEILAK			
TRANSLATION OF ORF99	(301)	QVGAPARAETRCPEFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGHRILIPYDWEILAK			
TRANSLATION OF G226TOP-LINK	(31)		-----		
TRANSLATION OF G591TOP-LINK	(1)		-----		
TRANSLATION OF LNCAP-GAG	(296)	QVGAPARAETRCPEFTMKMLKDIKEGVKQYGSNSPYIRTLLDSIAHGHRILIPYDWEILAK			
GAG106-135	(31)		-----		
GAG186-215	(31)		-----		
GAG46-75	(31)		-----		
PDG-G1	(17)		-----		
PGD-G2	(17)		-----		
PGD-G3	(1)		-----		
CONSENSUS	(301)		-----		

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## FIGURE 7 CONTD...

		361	420
GI_4185938_EMB_CAA76878.1	(356)	SSLSPSQFLQFKTWIDGVQEQVRRNRAANPPVNIDADQLLGIGQNWSTISQQALMQNEA	
GI_4185942_EMB_CAA76881.1	(356)	SSLSPSQFLQFKTWIDGVQEQVRRNRAANPPVNIDADQLLGIGQNWSTISQQALMQNEA	
GI_4185946_EMB_CAA76884.1	(356)	SSLSPSQFLQFKTWIDGVQEQVRRNRAANPPVNIDADQLLGIGQNWSTISQQALMQNEA	
GI_5931704_EMB_CAB56602.1	(254)	-----	
GAG OF AB047240	(356)	SSLSSSQYLQFKTWIDGVQEQVRKNQATKPTVNIDADQLLGTGPNWSTINQQSVMQNEA	
TRANSLATION OF ORF99	(361)	SSLSSSQYLQFKTWIDGVQEQVRKNQATKPTVNIDADQLLGTGPNWSTINQQSVMQNEA	
TRANSLATION OF G226TOP-LINK	(31)	-----	
TRANSLATION OF G591TOP-LINK	(1)	-----	
TRANSLATION OF LNCAP-GAG	(356)	SSLSSSQYLQFKTWIDGVQEQVRKNQATKPTVNIDADQLLGTGPNWSTINQQSVMQNEA	
GAG106-135	(31)	-----	
GAG186-215	(31)	-----	
GAG46-75	(31)	-----	
PDG-G1	(17)	-----	
PDG-G2	(17)	-----	
PGD-G3	(1)	-----	
CONSENSUS	(361)	-----	
		421	480
GI_4185938_EMB_CAA76878.1	(416)	IEQVRAICLRAWEKIQDPGSTCPSFNTVRQGSKEPYPDFVARLQDVAQKSIADKARKVI	
GI_4185942_EMB_CAA76881.1	(416)	IEQVRAICLRAWEKIQDPGSTCPSFNTVRQGSKEPYPDFVARLQDVAQKSIADKARKVI	
GI_4185946_EMB_CAA76884.1	(416)	IEQVRAICLRAWEKIQDPGSTCPSFNTVRQGSKEPYPDFVARLQDVAQKSIADKARKVI	
GI_5931704_EMB_CAB56602.1	(254)	-----	
GAG OF AB047240	(416)	IEQVRAICLRAWGKIQDPGTAF - INSIRQGSKEPYPDFVARLQDAAQKSIITDDNARKVI	
TRANSLATION OF ORF99	(421)	IEQVRAICLRAWGKIQDPGTAF - PINSIRQGSKEPYPDFVARLQDAAQKSIITDDNARKVI	
TRANSLATION OF G226TOP-LINK	(31)	-----	
TRANSLATION OF G591TOP-LINK	(1)	-----	
TRANSLATION OF LNCAP-GAG	(416)	IEQVRAICLRAWGKIQDPGTAF - INSIRQGSKEPYPDFVARLQDAAQKSIITDDNARKVI	
GAG106-135	(31)	-----	
GAG186-215	(31)	-----	
GAG46-75	(31)	-----	
PDG-G1	(17)	-----	
PDG-G2	(17)	-----	
PGD-G3	(1)	-----	
CONSENSUS	(421)	-----	
		481	540
GI_4185938_EMB_CAA76878.1	(476)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL	
GI_4185942_EMB_CAA76881.1	(476)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL	
GI_4185946_EMB_CAA76884.1	(476)	VELMAYENANPECQSAIKPLKGKVPAGSDVISEYVKACDGIGGAMYKAMLMAQAITGVVL	
GI_5931704_EMB_CAB56602.1	(254)	-----	
GAG OF AB047240	(475)	VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL	
TRANSLATION OF ORF99	(480)	VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL	
TRANSLATION OF G226TOP-LINK	(31)	-----	
TRANSLATION OF G591TOP-LINK	(1)	-----	
TRANSLATION OF LNCAP-GAG	(475)	VELMAYENANPECQSAIKPLKGKVPAGVDVITEYVKACDGIGGAMHKAMLMAQAMRGLTL	
GAG106-135	(31)	-----	
GAG186-215	(31)	-----	
GAG46-75	(31)	-----	
PDG-G1	(17)	-----	
PDG-G2	(17)	-----	
PGD-G3	(1)	-----	
CONSENSUS	(481)	-----	
		541	600
GI_4185938_EMB_CAA76878.1	(536)	GGQVRTFGRKCYNCQIIGHLKKNCPVLNKQNIITQATTG - REPPDLCPRCKKGKHWSQ	
GI_4185942_EMB_CAA76881.1	(536)	GGQVRTFGRKCYNCQIIGHLKKNCPVLNKQNIITQATTG - REPPDLCPRCKKGKHWSQ	
GI_4185946_EMB_CAA76884.1	(536)	GGQVRTFGRKCYNCQIIGHLKKNCPVLNKQNIITQATTG - REPPDLCPRCKKGKHWSQ	
GI_5931704_EMB_CAB56602.1	(254)	-----	
GAG OF AB047240	(535)	GGQVRTFGRKCYNCQIIGHLKRSCLPNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ	
TRANSLATION OF ORF99	(540)	GGQVRTFGRKCYNCQIIGHLKRSCLPNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ	
TRANSLATION OF G226TOP-LINK	(31)	-----	
TRANSLATION OF G591TOP-LINK	(1)	-----	
TRANSLATION OF LNCAP-GAG	(535)	GGQVRTFGRKCYNCQIIGHLKRSCLPNKQNIINQAITAKNKKPSGLCPKCGKGKHWANQ	
GAG106-135	(31)	-----	
GAG186-215	(31)	-----	
GAG46-75	(31)	-----	
PDG-G1	(17)	-----	
PDG-G2	(17)	-----	
PGD-G3	(1)	-----	
CONSENSUS	(541)	-----	

## FIGURE 7 CONTD...

	601	660
GI_4185938_EMB_CAA76878.1_	(595)	CRSKFDKNGQPLSGNEQRGQPAPQQTGAFFIQPFVPGFQGGQP-PLSQVFQGISQLPQ
GI_4185942_EMB_CAA76881.1_	(595)	CRSKFDKNGQPLSGNEQRGQPAPQQTGAFFIQPFVPHGFQGGQP-PLSQVFQGISQLPQ
GI_4185946_EMB_CAA76884.1_	(595)	CRSKFDKNGQPLSGNEQRGQPAPQQTGAFFIQPFVPGFQGGQP-PLSQVFQGISQLPQ
GI_5931704_EMB_CAB56602.1_	(254)	-----
GAG OF AB047240	(595)	CHSKFDKDGQPLSGNRKRGPQAPQQTGAFFVQLFVPQGFQGGQPLQKIPPLQGVSQLQQ
TRANSLATION OF ORF99	(600)	CHSKFDKDGQPLSGNRKRGPQAPQQTGAFFVQLFVPQGFQGGQPLQKIPPLQGVSQLQQ
TRANSLATION OF G226TOP-LINK	(31)	-----
TRANSLATION OF G591TOP-LINK	(5)	CRSKFDKNGQPLSGNEQRGQPAPQ-----
TRANSLATION OF LNCAP-GAG	(595)	CHSKFDKDGQPLSGNRKRGPQAPQQTGAFFVQLFVPQGFQGGQPLQKIPPLQGVSQLQQ
GAG106-135	(31)	-----
GAG186-215	(31)	-----
GAG46-75	(31)	-----
PDG-G1	(17)	-----
PGD-G2	(17)	-----
PGD-G3	(1)	CRSKFDKNGQPLSGNE-----
CONSENSUS	(601)	C'SKFDK GQPLSGN

	661	673
GI_4185938_EMB_CAA76878.1_	(654)	YNNCPPPQAAVQQ
GI_4185942_EMB_CAA76881.1_	(654)	YNNCPPPQAAVQQ
GI_4185946_EMB_CAA76884.1_	(654)	YNNCPPPQAAVQQ
GI_5931704_EMB_CAB56602.1_	(254)	-----
GAG OF AB047240	(655)	SNSCPAPQQAAPQ
TRANSLATION OF ORF99	(660)	SNSCPAPQQAAPQ
TRANSLATION OF G226TOP-LINK	(31)	-----
TRANSLATION OF G591TOP-LINK	(31)	-----
TRANSLATION OF LNCAP-GAG	(655)	SNSCPAPQQAAPQ
GAG106-135	(31)	-----
GAG186-215	(31)	-----
GAG46-75	(31)	-----
PDG-G1	(17)	-----
PGD-G2	(17)	-----
PGD-G3	(17)	-----
CONSENSUS	(661)	

## FIGURE 8

	1	60
GI_4185939_EMB_CAA76879.1_	(1)	MLTDLRAVN---AVIQPMGPLQPLGSPAMIPKDWPLIIIDLKDCFFTIPLAEQDCEKFA
GI_4185943_EMB_CAA76882.1_	(1)	MLTDLRAVNAVNAVIVQPMGPLQPLGSLAMIPKDWPLIIIDLKDCFFTIPLAEQDCEKFA
GI_4185947_EMB_CAA76885.1_	(1)	MLTDLRAVN---AVIQPMGPLQPLGSPAMIPKDWPLIIIDLKDCFFTIPLAEQDCEKFA
GI_5931705_EMB_CAB56603.1_	(1)	-----MIPKDWPLIIIDLKDCFFTIPLAEQDCEKFA
ENV OF AB047240	(1)	-----
TRANSLATION OF P386TOP-LINK	(1)	-----
TRANSLATION OF POL349-LINK	(1)	-----
LNCAP-GENOMEA-POLORF	(1)	-----
TRANSLATION OF LNCAP-POL-GENA-GOODA	(1)	-----
TRANSLATION OF ORF111-10	(1)	-----
PGD-P1	(1)	-----
PGD-P2	(1)	-----
PGDP3	(1)	-----
CONSENSUS	(1)	

	61	120
GI_4185939_EMB_CAA76879.1_	(58)	FTIPAINNKEPATRFQWKVLPQGMNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC
GI_4185943_EMB_CAA76882.1_	(61)	FTIPAINNKEPATRFQWKVLPQGMNSPTICQTFVGRALQPVREKFSDCYIIHYIDDILC
GI_4185947_EMB_CAA76885.1_	(58)	FTIPAINNKEPATRFQWKVLPQGMNSPTICQTFVGRALQPVREKFSDCYIIHCIDDILC
GI_5931705_EMB_CAB56603.1_	(32)	FTIPAINNKEPATRFQWKVLPQGMNSPTLCQTFVGRALQPVREKFSDCYIIHYFDDILC
ENV OF AB047240	(1)	-----
TRANSLATION OF P386TOP-LINK	(1)	-----
TRANSLATION OF POL349-LINK	(1)	-----
LNCAP-GENOMEA-POLORF	(1)	-----
TRANSLATION OF LNCAP-POL-GENA-GOODA	(1)	-----
TRANSLATION OF ORF111-10	(1)	-----
PGD-P1	(1)	-----
PGD-P2	(1)	-----
PGDP3	(1)	-----
CONSENSUS	(61)	

## FIGURE 8 contd...

GI_4185939_EMB_CAA76879.1	(118)	AAETKDKLIDCYTFLQAEVANAGLAIASDKIQTSTPFFHYLGMQIENRKIKPKQIEIRKDT	180
GI_4185943_EMB_CAA76882.1	(121)	AAEMKDKLIDCYTFLQAEVANAGLAIASDKIQTSTPFFHYLGMQIENRKIKPKQIEIRKDT	
GI_4185947_EMB_CAA76885.1	(118)	AAETKDKLIDCYTFLQAEVANAGLAIASDKIQTSTPFFHYLGMQIENRKIKPKQIEIRKDT	
GI_5931705_EMB_CAB56603.1	(92)	AAETKDKLIDCYTFLQAEVANAGLAIASDKIQTSTPFFHYLGMQIENRKIKPKQIEIRKDT	
ENV OF AB047240	(1)	-----	
TRANSLATION OF P386TOP-LINK	(1)	-----	
TRANSLATION OF POL349-LINK	(1)	-----	
LNCAP-GENOMEA-POLORF	(1)	-----	
TRANSLATION OF LNCAP-POL-GENA-GOODA	(1)	-----	
TRANSLATION OF ORF111-10	(1)	-----	
PGD-P1	(1)	-----	
PGD-P2	(1)	-----	
PGDP3	(1)	-----	
CONSENSUS	(121)	-----IENRKIKPKQIEIRKDT-----	
GI_4185939_EMB_CAA76879.1	(178)	LKTLNDFQKLLGDINWIRPTLGIPTYAMSNLFSILRGSDSLNSKRMLTPEATKEIKLVEE	240
GI_4185943_EMB_CAA76882.1	(181)	LKTLNDFQKLLGDINWIRPTLGIPTYAMSNLFSILRGSDSLNSKRMLTPEATKEIKLVEE	
GI_4185947_EMB_CAA76885.1	(178)	LKTLNDFQKLLGDINWIRPTLGIPTYAMSNLFSILRGSDSLNSKRMLTPEATKEIKLVEE	
GI_5931705_EMB_CAB56603.1	(152)	LKTLNDFQKLLGDINWIRPTLGIPTYAMSNLFSILRGSDSLNSKRMLTPEATKEIKLVEE	
ENV OF AB047240	(1)	-----	
TRANSLATION OF P386TOP-LINK	(1)	-----	
TRANSLATION OF POL349-LINK	(1)	-----	
LNCAP-GENOMEA-POLORF	(1)	-----	
TRANSLATION OF LNCAP-POL-GENA-GOODA	(1)	-----	
TRANSLATION OF ORF111-10	(1)	-----	
PGD-P1	(17)	-----	
PGD-P2	(1)	-----	
PGDP3	(1)	-----	
CONSENSUS	(181)	-----	
GI_4185939_EMB_CAA76879.1	(238)	KIQSAQINRIDPLAPLOLIFTAHSPTGIIQNTDLVWSFLPHSTTKTFTLYLDQMAT	300
GI_4185943_EMB_CAA76882.1	(241)	KIQSAQINRIDPLAPLOLIFTAHSPTGIIQNTDLVWSFLPHSTTKTFTLYLDQMAT	
GI_4185947_EMB_CAA76885.1	(238)	KIQSAQINRIDPLAPLOLIFTAHSPTGIIQNTDLVWSFLPHSTTKTFTLYLDQMAT	
GI_5931705_EMB_CAB56603.1	(212)	KIQSAQINRIDPLAPLOLIFTAHSPTGIIQNTDLVWSFLPHSTTKTFTLYLDQMAT	
ENV OF AB047240	(1)	-----	
TRANSLATION OF P386TOP-LINK	(1)	-----	
TRANSLATION OF POL349-LINK	(1)	-----	
LNCAP-GENOMEA-POLORF	(1)	-----	
TRANSLATION OF LNCAP-POL-GENA-GOODA	(1)	-----	
TRANSLATION OF ORF111-10	(1)	-----	
PGD-P1	(17)	-----	
PGD-P2	(1)	-----	
PGDP3	(1)	-----	
CONSENSUS	(241)	D LAPLQLLIFATAHS TGIIQNTDLVWSFLPHSTTKTFTLYLDQMAT	
GI_4185939_EMB_CAA76879.1	(298)	LIGQTLRLRIIKLCGNDPDKIVVPLTKEQVROAFINSQAWKIGLANFGIIDNHYPKTKIF	360
GI_4185943_EMB_CAA76882.1	(301)	LIGQTLRLRIIKLCGNDPDKIVVPLTKEQVROAFINSQAWKIGLANFGIIDNHYPKTKIF	
GI_4185947_EMB_CAA76885.1	(298)	LIGQTLRLRIIKLCGNDPDKIVVPLTKEQVROAFINSQAWKIGLANFGIIDNHYPKTKIF	
GI_5931705_EMB_CAB56603.1	(272)	LIGQTLRLRIIKLCGNDPDKIVVPLTKEQVROAFINSQAWKIGLANFGIIDNHYPKTKIF	
ENV OF AB047240	(4)	LIGQTLRLRIITLCGNDPDKITVFPNKQVROAFISSQAWQIGLANFGIIDNHYPKTKIF	
TRANSLATION OF P386TOP-LINK	(1)	-----	
TRANSLATION OF POL349-LINK	(1)	-----	
LNCAP-GENOMEA-POLORF	(51)	LIGQTLRLRIITLCGNDPDKITVFPNKQVROAFISSQAWQIGLANFGIIDNHYPKTKIF	
TRANSLATION OF LNCAP-POL-GENA-GOODA	(51)	LIGQTLRLRIITLCGNDPDKITVFPNKQVROAFISSQAWQIGLANFGIIDNHYPKTKIF	
TRANSLATION OF ORF111-10	(57)	LIGQTLRLRIITLCGNDPDKITVFPNKQVROAFISSQAWQIGLANFGIIDNHYPKTKIF	
PGD-P1	(17)	-----	
PGD-P2	(1)	-----	
PGDP3	(1)	-----	
CONSENSUS	(301)	LIGQ TLRLRI LCGNDPDKI VP K QVRQAFI SGAW IGLANFLGIIDNHYPKTKIF	
GI_4185939_EMB_CAA76879.1	(358)	QFLKLTWILPKITRREPLENALTVFTDGSSNGKAAATGPKERVIKTPYQSAQRAELVAV	420
GI_4185943_EMB_CAA76882.1	(361)	QFLKLTWILPKITRREPLENALTVFTDGSSNGKAAATGPKERVIKTPYQSAQRAELVAV	
GI_4185947_EMB_CAA76885.1	(358)	QFLKLTWILPKITRREPLENALTVFTDGSSNGKAAATGPKERVIKTPYQSAQRAELVAV	
GI_5931705_EMB_CAB56603.1	(332)	QFLKLTWILPKITRREPLENALTVFTDGSSNGKAAATGPKERVIKTPYQSAQRAELVAV	
ENV OF AB047240	(64)	QFLKLTWILPKITRREPLENALTVFTDGSSNGKAAATGPKERVIKTPYQSAQRAELVAV	
TRANSLATION OF P386TOP-LINK	(1)	-----	
TRANSLATION OF POL349-LINK	(10)	QFLKLTWILPKITRREP-----	
LNCAP-GENOMEA-POLORF	(111)	QFLKLTWILPKITRREPLENALTVFTDGSSNGKAAATGPKERVIKTPYQSAQRAELVAV	
TRANSLATION OF LNCAP-POL-GENA-GOODA	(111)	QFLKLTWILPKITRREPLENALTVFTDGSSNGKAAATGPKERVIKTPYQSAQRAELVAV	
TRANSLATION OF ORF111-10	(117)	QFLKLTWILPKITRREPLENALTVFTDGSSNGKAAATGPKERVIKTPYQSAQRAELVAV	
PGD-P1	(17)	-----	
PGD-P2	(1)	-----	
PGDP3	(1)	-----	
CONSENSUS	(361)	QFLKLTWILPKITRREPLENALTVFTDGSSNGKAAATGPKERVIKTPYQSAQRAELVAV	



## FIGURE 8 contd...

GI_4185939_EMB_CAA76879.1	(418)	ITVLQDFDQPINIISDSAYVVQATRDVETALIKYSMDQNLNQLFNLLQOTVRKRNFPFFYI	421	480
GI_4185943_EMB_CAA76882.1	(421)	ITVLQDFDQPINIISDSAYVVQATRDVETALIKYSMDQNLNQLFNLLQOTVRKRNFPFFYI		
GI_4185947_EMB_CAA76885.1	(418)	ITVLQDFDQPINIISDSAYVVQATRDVETALIKYSMDQNLNQLFNLLQOTVRKRNFPFFYI		
GI_5931705_EMB_CAB56603.1	(392)	ITVLQDFDQPINIISDSAYVVQATRDVETALIKYSMDQNLNQLFNLLQOTVRKRNFPFFYI		
ENV OF AB047240	(124)	ITVLQDFDQPINIISDSAYVVQATRDVETALIKYSTDDHLNQLFNLLQOTVRKRNFPFFYI		
TRANSLATION OF P386TOP-LINK	(31)	-----		
TRANSLATION OF POL349-LINK	(28)	-----		
LNCAP-GENOMEA-POLORF	(171)	ITVLQDFDQPINIISDSAYVVQATRDVETALIKYSTDDHLNQLFNLLQOTVRKRNFPFFYI		
TRANSLATION OF LNCAP-POL-GENA-GOODA	(171)	ITVLQDFDQPINIISDSAYVVQATRDVETALIKYSTDDHLNQLFNLLQOTVRKRNFPFFYI		
TRANSLATION OF ORF111-10	(177)	ITVLQDFDQPINIISDSAYVVQATRDVETALIKYSTDDHLNQLFNLLQOTVRKRNFPFFYI		
PGD-P1	(17)	-----		
PGD-P2	(17)	-----		
PGDP3	(1)	-----		
CONSENSUS	(421)	ITVLQDFDQPINIISDSAYVVQATRDVETALIKYS DD LNQLFNLLQOTVRKRNFPFFYI		
GI_4185939_EMB_CAA76879.1	(478)	THIRAHNTLPGPLTKANEQADLLVSSALIKAEQLHALTHVNAAGLNKPKFDVTWKQAKDIV	481	540
GI_4185943_EMB_CAA76882.1	(481)	THIRAHNTLPGPLTKANEQADLLVSSALIKAEQLHALTHVNAAGLNKPKFDVTWKQAKDIV		
GI_4185947_EMB_CAA76885.1	(478)	THIRAHNTLPGPLTKANEQADLLVSSALIKAEQLHALTHVNAAGLNKPKFDVTWKQAKDIV		
GI_5931705_EMB_CAB56603.1	(452)	THIRAHNTLPGPLTKANEQADLLVSSAFIKAEQLHALTHVNAAGLNKPKFDVTWKQAKDIV		
ENV OF AB047240	(184)	THIRAHNTLPGPLTKANEQADLLVSSAFIKAEQLHALTHVNAAGLNKPKFDVTWKQAKDIV		
TRANSLATION OF P386TOP-LINK	(31)	-----		
TRANSLATION OF POL349-LINK	(28)	-----		
LNCAP-GENOMEA-POLORF	(231)	THIRAHNTLPGPLTKANEQADLLVSSAFIKAEQLHALTHVNAAGLNKPKFDVTWKQAKDIV		
TRANSLATION OF LNCAP-POL-GENA-GOODA	(231)	THIRAHNTLPGPLTKANEQADLLVSSAFIKAEQLHALTHVNAAGLNKPKFDVTWKQAKDIV		
TRANSLATION OF ORF111-10	(237)	THIRAHNTLPGPLTKANEQADLLVSSAFIKAEQLHALTHVNAAGLNKPKFDVTWKQAKDIV		
PGD-P1	(17)	-----		
PGD-P2	(17)	-----		
PGDP3	(1)	-----		
CONSENSUS	(481)	THIRAHNTLPGPLTKANEQADLLVSSA IKAQEL ALTHVNAAGLNKPKFDVTWKQAKDIV		
GI_4185939_EMB_CAA76879.1	(538)	QHCTQCQVHLHLPQEBAGVNPRLCPNALWQMDVTHVPSFGRLSYVHVTVDTYSHFIWATC	541	600
GI_4185943_EMB_CAA76882.1	(541)	QHCTQCQVHLHLPQEBAGVNPRLCPNALWQMDVTHVPSFGRLSYVHVTVDTYSHFIWATC		
GI_4185947_EMB_CAA76885.1	(538)	QHCTQCQVHLHLPQEBAGVNPRLCPNALWQMDVTHVPSFGRLSYVHVTVDTYSHFIWATC		
GI_5931705_EMB_CAB56603.1	(512)	QHCTQCQVLDLPQEBAGVNPVLCVLMHYGKWMHMYLHGLRLSYVHVTVDTYSHFIWATC		
ENV OF AB047240	(244)	QHCTQCQVHLHLPQEBAGVNPRLCPNALWQMDGTHVPSFGRLSYVHVTVDTYSHFIWATC		
TRANSLATION OF P386TOP-LINK	(31)	-----		
TRANSLATION OF POL349-LINK	(28)	-----		
LNCAP-GENOMEA-POLORF	(291)	QHCTQCQVHLHLPQEBAGVNPRLCPNALWQMDGTHVPSFGRLSYVHVTVDTYSHFIWATC		
TRANSLATION OF LNCAP-POL-GENA-GOODA	(291)	QHCTQCQVHLHLPQEBAGVNPRLCPNALWQMDGTHVPSFGRLSYVHVTVDTYSHFIWATC		
TRANSLATION OF ORF111-10	(297)	QHCTQCQVHLHLPQEBAGVNPRLCPNALWQMDGTHVPSFGRLSYVHVTVDTYSHFIWATC		
PGD-P1	(17)	-----		
PGD-P2	(17)	-----		
PGDP3	(1)	-----		
CONSENSUS	(541)	QHCTQCQVHLHLPQEBAGVNPRLCPNALWQMD THV SFGRLSYVHVTVDTYSHFIWATC		
GI_4185939_EMB_CAA76879.1	(598)	QTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCSKAFQKFLSQWKISHTTGIPYNSQG	601	660
GI_4185943_EMB_CAA76882.1	(601)	QTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCSKAFQKFLSQWKISHTTGIPYNSQG		
GI_4185947_EMB_CAA76885.1	(598)	QTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCSKAFQKFLSQWKISHTTGIPYNSQG		
GI_5931705_EMB_CAB56603.1	(572)	QTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCSKAFQKFLSQWKISHTTGIPYNSQG		
ENV OF AB047240	(304)	QTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCSKAFQKFLSQWKISHTTGIPYNSQG		
TRANSLATION OF P386TOP-LINK	(31)	-----		
TRANSLATION OF POL349-LINK	(28)	-----		
LNCAP-GENOMEA-POLORF	(351)	QTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCSKAFQKFLSQWKISHTTGIPYNSQG		
TRANSLATION OF LNCAP-POL-GENA-GOODA	(351)	QTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCSKAFQKFLSQWKISHTTGIPYNSQG		
TRANSLATION OF ORF111-10	(357)	QTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCSKAFQKFLSQWKISHTTGIPYNSQG		
PGD-P1	(17)	-----		
PGD-P2	(17)	-----		
PGDP3	(1)	-----		
CONSENSUS	(601)	QTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCSKAFQKFLSQWKISHTTGIPYNSQG		
GI_4185939_EMB_CAA76879.1	(658)	QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNPLNIYRNQTTTSAEQHILT	661	720
GI_4185943_EMB_CAA76882.1	(661)	QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNPLNIYRNQTTTSAEQHILT		
GI_4185947_EMB_CAA76885.1	(658)	QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNPLNIYRNQTTTSAEQHILT		
GI_5931705_EMB_CAB56603.1	(632)	QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNPLNIYRNQTTTSAEQHILT		
ENV OF AB047240	(364)	QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNPLNIYRNQTTTSAEQHILT		
TRANSLATION OF P386TOP-LINK	(31)	-----		
TRANSLATION OF POL349-LINK	(28)	-----		
LNCAP-GENOMEA-POLORF	(411)	QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNPLNIYRNQTTTSAEQHILT		
TRANSLATION OF LNCAP-POL-GENA-GOODA	(411)	QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNPLNIYRNQTTTSAEQHILT		
TRANSLATION OF ORF111-10	(417)	QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNPLNIYRNQTTTSAEQHILT		
PGD-P1	(17)	-----		
PGD-P2	(17)	-----		
PGDP3	(1)	-----		
CONSENSUS	(661)	QAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNPLNIYRNQTTTSA QHLT		

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## FIGURE 8 CONTD...

GI_4185939_EMB_CAA76879.1	(718)	GKKNSPHEGKLIWWKDNKNTWEIGKVITWGRGFACVSPGENQLPVWI PTRHLKFYNEPI	780
GI_4185943_EMB_CAA76882.1	(721)	GKKNSPHEGKLIWWKDNKNTWEIGKVITWGRGFACVSPGENQLPVWI PTRHLKFYNEPI	
GI_4185947_EMB_CAA76885.1	(718)	GKKNSPHEGKLIWWKDNKNTWEIGKVITWGRGFACVSPGENQLPVWI PTRHLKFYNEPI	
GI_5931705_EMB_CAB56603.1	(691)	GKKNSPHEGKLI	
ENV OF AB047240	(424)	GKKHSPHEGKLIWWKDNKNTWEIGKVITWGRGFACVSPGENQLPVWI PTRHLKFYNEPI	
TRANSLATION OF P386TOP-LINK	(31)	-----	
TRANSLATION OF POL349-LINK	(28)	-----	
LNCAP-GENOMEA-POLORF	(471)	GKKHSPHEGKLIWWKDNKNTWEIGKVITWGRGFACVSPGENQLPVWI PTRHLKFYNEPI	
TRANSLATION OF LNCAP-POL-GENA-GOODA	(471)	GKKHSPHEGKLIWWKDNKNTWEIGKVITWGRGFACVSPGENQLPVWI PTRHLKFYNEPI	
TRANSLATION OF ORF111-10	(477)	GKKHSPHEGKLIWWKDNKNTWEIGKVITWGRGFACVSPGENQLPVWI PTRHLKFYNEPI	
PGD-P1	(17)	-----	
PGD-P2	(17)	-----	
PGDP3	(4)	GKKNSPHEGKLIC	
CONSENSUS	(721)	GKK SPHEGKLIWWKDNKNTWEIGKVITWGRGFACVSPGENQLPVWI PTRHLKFYNEPI	
GI_4185939_EMB_CAA76879.1			781
GI_4185943_EMB_CAA76882.1	(778)	RDAAKSTSAETETS	840
GI_4185947_EMB_CAA76885.1	(781)	GDAKSTSAETETP	
GI_5931705_EMB_CAB56603.1	(778)	RDAAKSTSAETETS	
ENV OF AB047240	(703)	-----	
TRANSLATION OF P386TOP-LINK	(484)	GDAKRASTEMVTPVTWMDNPIEVYVNDVWVPGPTDDRCPAKPEEGBMINISIVYRYP	
TRANSLATION OF POL349-LINK	(31)	-----	
LNCAP-GENOMEA-POLORF	(28)	-----	
TRANSLATION OF LNCAP-POL-GENA-GOODA	(531)	GDAKRASTEMVTPVTWMDNPIEVYVNDVWVPGPTDDRCPAKPEEGBMINISIVYRYP	
TRANSLATION OF ORF111-10	(531)	GDAKRASTEMVTPVTWMDNPIEVYVNDVWVPGPTDDRCPAKPEEGBMINISIVYRYP	
PGD-P1	(537)	GDAKRASTEMVTPVTWMDNPIEVYVNDVWVPGPTDDRCPAKPEEGBMINISIVYRYP	
PGD-P2	(17)	-----	
PGDP3	(17)	-----	
CONSENSUS	(17)	-----	
GI_4185939_EMB_CAA76879.1	(781)	DAKK S E T	
GI_4185943_EMB_CAA76882.1			841
GI_4185947_EMB_CAA76885.1	(792)	-----	900
GI_5931705_EMB_CAB56603.1	(795)	-----	
ENV OF AB047240	(792)	-----	
TRANSLATION OF P386TOP-LINK	(703)	-----	
TRANSLATION OF POL349-LINK	(544)	PICLGRAPGCLMPAVQNWLVVEVPTVSPNSRFTYHVMVSGMSLRPRVNYLQDFSYQSLKFR	
LNCAP-GENOMEA-POLORF	(31)	-----	
TRANSLATION OF LNCAP-POL-GENA-GOODA	(28)	-----	
TRANSLATION OF ORF111-10	(591)	PICLGRAPGCLMPAVQNWLVVEVPTVSPNSRFTYHVMVSGMSLRPRVNYLQDFSYQSLKFR	
PGD-P1	(591)	PICLGRAPGCLMPAVQNWLVVEVPTVSPNSRFTYHVMVSGMSLRPRVNYLQDFSYQSLKFR	
PGD-P2	(597)	PICLGRAPGCLMPAVQNWLVVEVPTVSPNSRFTYHVMVSGMSLRPRVNYLQDFSYQSLKFR	
PGDP3	(17)	-----	
CONSENSUS	(17)	-----	
GI_4185939_EMB_CAA76879.1	(17)	-----	
GI_4185943_EMB_CAA76882.1	(17)	-----	
GI_4185947_EMB_CAA76885.1	(17)	-----	
GI_5931705_EMB_CAB56603.1	(17)	-----	
ENV OF AB047240	(17)	-----	
TRANSLATION OF P386TOP-LINK	(604)	PKGKPCPKBI PKESKNTVLVWEECVANSVILQNNPEGT IDWAPRGQFYHNCSSGQTQS	
TRANSLATION OF POL349-LINK	(31)	-----	
LNCAP-GENOMEA-POLORF	(28)	-----	
TRANSLATION OF LNCAP-POL-GENA-GOODA	(651)	PKGKPCPKBI PKESKNTVLVWEECVANSVILQNNPEGT IDWAPRGQFYHNCSSGQTQS	
TRANSLATION OF ORF111-10	(651)	PKGKPCPKBI PKESKNTVLVWEECVANSVILQNNPEGT IDWAPRGQFYHNCSSGQTQS	
PGD-P1	(657)	PKGKPCPKBI PKESKNTVLVWEECVANSVILQNNPEGT IDWAPRGQFYHNCSSGQTQS	
PGD-P2	(17)	-----	
PGDP3	(17)	-----	
CONSENSUS	(17)	-----	
GI_4185939_EMB_CAA76879.1	(901)	-----	960
GI_4185943_EMB_CAA76882.1	(792)	-----	
GI_4185947_EMB_CAA76885.1	(795)	-----	
GI_5931705_EMB_CAB56603.1	(792)	-----	
ENV OF AB047240	(703)	-----	
TRANSLATION OF P386TOP-LINK	(604)	PKGKPCPKBI PKESKNTVLVWEECVANSVILQNNPEGT IDWAPRGQFYHNCSSGQTQS	
TRANSLATION OF POL349-LINK	(31)	-----	
LNCAP-GENOMEA-POLORF	(28)	-----	
TRANSLATION OF LNCAP-POL-GENA-GOODA	(651)	PKGKPCPKBI PKESKNTVLVWEECVANSVILQNNPEGT IDWAPRGQFYHNCSSGQTQS	
TRANSLATION OF ORF111-10	(651)	PKGKPCPKBI PKESKNTVLVWEECVANSVILQNNPEGT IDWAPRGQFYHNCSSGQTQS	
PGD-P1	(657)	PKGKPCPKBI PKESKNTVLVWEECVANSVILQNNPEGT IDWAPRGQFYHNCSSGQTQS	
PGD-P2	(17)	-----	
PGDP3	(17)	-----	
CONSENSUS	(17)	-----	
GI_4185939_EMB_CAA76879.1	(901)	-----	961
GI_4185943_EMB_CAA76882.1	(816)	QEGRAANLITTKADAVSYKISREHKGDTNPREACSDDCINGGKSPYCRSSCS	1020
GI_4185947_EMB_CAA76885.1	(819)	QESRAADLITTKADAVSYKISREHKGDTNPREACSDDCINGGKSPYCRSSCS	
GI_5931705_EMB_CAB56603.1	(816)	QEGRAANLITTKADAVSYKISREHKGDTNPREACSDDCINGGKSPYCRSSCS	
ENV OF AB047240	(703)	-----	
TRANSLATION OF P386TOP-LINK	(664)	CPSAQVSPVDSLTESLDKHKHKKLQSPYPWEGEKGSTPRPEIISPVGPEHPELWR	
TRANSLATION OF POL349-LINK	(31)	-----	
LNCAP-GENOMEA-POLORF	(28)	-----	
TRANSLATION OF LNCAP-POL-GENA-GOODA	(711)	CPSAQVSPVDSLTESLDKHKHKKLQSPYPWEGEKGSTPRPEIISPVGPEHPELWR	
TRANSLATION OF ORF111-10	(711)	CPSAQVSPVDSLTESLDKHKHKKLQSPYPWEGEKGSTPRPEIISPVGPEHPELWR	
PGD-P1	(717)	CPSAQVSPVDSLTESLDKHKHKKLQSPYPWEGEKGSTPRPEIISPVGPEHPELWR	
PGD-P2	(17)	-----	
PGDP3	(17)	-----	
CONSENSUS	(17)	-----	
GI_4185939_EMB_CAA76879.1	(961)	A D K P EWG I SP S	

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**FIGURE 8** *CONTD...*

	1021	1035
GI_4185939_EMB_CAA76879.1	(873)	-----
GI_4185943_EMB_CAA76882.1	(876)	-----
GI_4185947_EMB_CAA76885.1	(873)	-----
GI_5931705_EMB_CAB56603.1	(703)	-----
ENV OF AB047240	(724)	LWPDITLEFGLEIKL
TRANSLATION OF P386TOP-LINK	(31)	-----
TRANSLATION OF POL349-LINK	(28)	-----
LNCAP-GENOMEA-POLORF	(764)	-----
TRANSLATION OF LNCAP-POL-GENA-GOODA	(771)	LWPDITLEFGLEIKL
TRANSLATION OF ORF111-10	(777)	LWPDITLEFGLEIKL
PGD-P1	(17)	-----
PGD-P2	(17)	-----
PGDP3	(17)	-----
CONSENSUS	(1021)	-----

**FIGURE 9**

	1	60
GI_4185940_EMB_CAA76880.1	(1)	-----
GI_4185944_EMB_CAA76883.1	(1)	-----
GI_4185948_EMB_CAA76886.1	(1)	-----
GI_5931706_EMB_CAB56604.1	(1)	-----
ENV OF AB047240	(1)	MATLIGQGRRLRIITLCGNDPDKITVPFNKQVVRQAFISSGAWQIGLANFLGIIDNHYPKT
TRANSLATION OF E207TOP-LINK	(1)	-----
TRANSLATION OF ENV287-LINK	(1)	-----
TRANSLATION OF T20.22A-23	(1)	-----
PGD-E1	(1)	-----
PGD-E2	(1)	-----
PGD-E3	(1)	-----
CONSENSUS	(1)	-----

	61	120
GI_4185940_EMB_CAA76880.1	(1)	-----
GI_4185944_EMB_CAA76883.1	(1)	-----
GI_4185948_EMB_CAA76886.1	(1)	-----
GI_5931706_EMB_CAB56604.1	(1)	-----
ENV OF AB047240	(61)	KIFQFLKLTWILPKITRREPLENALTVFTDGSSNGKAAAYTGPKERVIKTPYQSAQRABL
TRANSLATION OF E207TOP-LINK	(1)	-----
TRANSLATION OF ENV287-LINK	(1)	-----
TRANSLATION OF T20.22A-23	(1)	-----
PGD-E1	(1)	-----
PGD-E2	(1)	-----
PGD-E3	(1)	-----
CONSENSUS	(61)	-----

	121	180
GI_4185940_EMB_CAA76880.1	(1)	-----
GI_4185944_EMB_CAA76883.1	(1)	-----
GI_4185948_EMB_CAA76886.1	(1)	-----
GI_5931706_EMB_CAB56604.1	(1)	-----
ENV OF AB047240	(121)	VAVITVLQDFDPINIISSAYVVQATRDVETALIKYSTDDHLNQLFNLLQQTVRKRNF
TRANSLATION OF E207TOP-LINK	(1)	-----
TRANSLATION OF ENV287-LINK	(1)	-----
TRANSLATION OF T20.22A-23	(1)	-----
PGD-E1	(1)	-----
PGD-E2	(1)	-----
PGD-E3	(1)	-----
CONSENSUS	(121)	-----

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## FIGURE 9 CONTD...

GI_4185940_EMB_CAA76880.1_	(1)	181	240
GI_4185944_EMB_CAA76883.1_	(1)	-----	-----
GI_4185948_EMB_CAA76886.1_	(1)	-----	-----
GI_5931706_EMB_CAB56604.1_	(1)	-----	-----
ENV OF AB047240	(181)	FYITHIRAHTNLPGLTKANEQADLLVSSAFIKAQELLALTHVNAAGLKNKFPDVTWKQAK	
TRANSLATION OF E207TOP-LINK	(1)	-----	-----
TRANSLATION OF ENV287-LINK	(1)	-----	-----
TRANSLATION OF T20.22A-23	(1)	-----	-----
PGD-E1	(1)	-----	-----
PGD-E2	(1)	-----	-----
PGD-E3	(1)	-----	-----
CONSENSUS	(181)	-----	-----
GI_4185940_EMB_CAA76880.1_	(1)	241	300
GI_4185944_EMB_CAA76883.1_	(1)	-----	-----
GI_4185948_EMB_CAA76886.1_	(1)	-----	-----
GI_5931706_EMB_CAB56604.1_	(1)	-----	-----
ENV OF AB047240	(241)	DIVQHCSTQCQVLHLSTQEAGVNPRGLCPNALWQMDGTHVPSFGRLSYVHVTVDTYSHPIW	
TRANSLATION OF E207TOP-LINK	(1)	-----	-----
TRANSLATION OF ENV287-LINK	(1)	-----	-----
TRANSLATION OF T20.22A-23	(1)	-----	-----
PGD-E1	(1)	-----	-----
PGD-E2	(1)	-----	-----
PGD-E3	(1)	-----	-----
CONSENSUS	(241)	-----	-----
GI_4185940_EMB_CAA76880.1_	(1)	301	360
GI_4185944_EMB_CAA76883.1_	(1)	-----	-----
GI_4185948_EMB_CAA76886.1_	(1)	-----	-----
GI_5931706_EMB_CAB56604.1_	(1)	-----	-----
ENV OF AB047240	(301)	ATCQTGESTSHVKKHLLSCFAVMGVPEKIKTDNGPGYCSKAPQKFLSQWKISHTTGIPYN	
TRANSLATION OF E207TOP-LINK	(1)	-----	-----
TRANSLATION OF ENV287-LINK	(1)	-----	-----
TRANSLATION OF T20.22A-23	(1)	-----	-----
PGD-E1	(1)	-----	-----
PGD-E2	(1)	-----	-----
PGD-E3	(1)	-----	-----
CONSENSUS	(301)	-----	-----
GI_4185940_EMB_CAA76880.1_	(1)	361	420
GI_4185944_EMB_CAA76883.1_	(1)	-----MQRKAPPPRRRRHRNRAPLTHKMNMVTSSEQMKL	
GI_4185948_EMB_CAA76886.1_	(1)	-----MQRKAPPPRRRRHRNRAPLTHKMNMVTSSEQMKL	
GI_5931706_EMB_CAB56604.1_	(1)	-----MQRKAPPPRRRRHRNRAPLTHKMNMVTSSEQMKL	
ENV OF AB047240	(361)	SQGQAIVERTNRTLKTQLVKQKEGGDSKECTTPQMQLNLALYTLNFLNIYRNTTSSAKQ	
TRANSLATION OF E207TOP-LINK	(1)	-----	-----
TRANSLATION OF ENV287-LINK	(1)	-----	-----
TRANSLATION OF T20.22A-23	(1)	-----MNPSEMQRKAPPPRRRRHRNRAPLTHKMNMVTSSEQMKL	
PGD-E1	(1)	-----	-----
PGD-E2	(1)	-----	-----
PGD-E3	(1)	-----	-----
CONSENSUS	(361)	-----	-----
GI_4185940_EMB_CAA76880.1_	(35)	421	480
GI_4185944_EMB_CAA76883.1_	(35)	PSTKKAEPPTWAQLKKLTQLATKYLENTKVTQTPESMLLAALMIVSMVVSLEPMPAGAAAA	
GI_4185948_EMB_CAA76886.1_	(35)	PSTKKAEPPTWAQLKKLTQLATKYLENTKVTQTPESMLLAALMIVSMVVSLEPMPAGAAAA	
GI_5931706_EMB_CAB56604.1_	(1)	-----	-----
ENV OF AB047240	(421)	HLTGKKHSPHEGKLIWKNKNKTWEIGKVITWGRGFACVSPGENQLPVWIPTRHLPYN	
TRANSLATION OF E207TOP-LINK	(1)	-----	-----
TRANSLATION OF ENV287-LINK	(1)	-----	-----
TRANSLATION OF T20.22A-23	(40)	PSTKKAEPPTWAQLKKLTQLATKYLENTKVTQTPESMLLAALMIVSMVVSLEPMPAGAAAA	
PGD-E1	(1)	-----	-----
PGD-E2	(1)	-----	-----
PGD-E3	(1)	-----	-----
CONSENSUS	(421)	-----	-----

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## FIGURE 9 CONTD...

GI\_4185940\_EMB\_CAA76880.1\_ (95) NYTYWAYVPPFP-~~TT~~RAVTWMDNPTEVYVNDVSVVWPGPIDDRCPAKPEEEGMMINISIGY 540  
 GI\_4185944\_EMB\_CAA76883.1\_ (95) NYTYWAYVPPFP-~~TT~~RAVTWMDNPTEVYVNDVSVVWPGPTDDHCPAKPEEEGMMINISIGY  
 GI\_4185948\_EMB\_CAA76886.1\_ (95) NYTYWAYVPPFP-~~TT~~RAVTWMDNPTEVYVNDVSVVWPGPIDDRCPAKPEEEGMMINISIGY  
 GI\_5931706\_EMB\_CAB56604.1\_ (1) -----~~TT~~TPVTWMDNPTEVYVNDVSVVWPGPTDDHCPAKPEEEGMMINISIGY  
 ENV OF AB047240 (481) EPIGDAKKRASTE~~TT~~TPVTWMDNPTEVYVNDVSVVWPGPTDDHCPAKPEEEGMMINISIVY  
 TRANSLATION OF E207TOP-LINK (1) -----  
 TRANSLATION OF ENV287-LINK (1) -----  
 TRANSLATION OF T20.22A-23 (100) NYTYWAYVPPFP-~~TT~~RAVTWMDNPTEVYVNDVSVVWPGPIDDRCPAKPEEEGMMINISIGY  
 PGD-E1 (1) -----  
 PGD-E2 (1) -----  
 PGD-E3 (1) -----  
 CONSENSUS (481) LI VTWMDNP EVYVNDVSVVWPGP DD CPAKPEEEGMMINISI Y

GI\_4185940\_EMB\_CAA76880.1\_ (154) HYPPICLGRAPGCLMPAVQNWLVEVPTVSPICRFTYHVMVSGMSLRPRVNYLQDFSQYQSL 600  
 GI\_4185944\_EMB\_CAA76883.1\_ (154) RYPPICLGRAPGCLMPAVQNWLVEVPTVSPISRFTYHVMVSGMSLRPRVNYLQDFSQYQSLF  
 GI\_4185948\_EMB\_CAA76886.1\_ (154) HYPPICLGRAPGCLMPAVQNWLVEVPTVSPICRFTYHVMVSGMSLRPRVNYLQDFSQYQSL  
 GI\_5931706\_EMB\_CAB56604.1\_ (48) HYPPICLGRAPGCLMPAVQNWLVEVPTVSPNSRFTYHVMVSGMSLRPRVNYLQDFSQYQSL  
 ENV OF AB047240 (541) RYPPICLGRAPGCLMPAVQNWLVEVPTVSPNSRFTYHVMVSGMSLRPRVNYLQDFSQYQSL  
 TRANSLATION OF E207TOP-LINK (1) -----PSYQYQSL  
 TRANSLATION OF ENV287-LINK (1) -----  
 TRANSLATION OF T20.22A-23 (159) HYPPICLGRAPGCLMPAVQNWLVEVPTVSPICRFTYHVMVSGMSLRPRVNYLQDFSQYQSL  
 PGD-E1 (1) -----  
 PGD-E2 (1) -----  
 PGD-E3 (1) -----  
 CONSENSUS (541) YPPICLGRAPGCLMPAVQNWLVEVPTVSP RFTYHVMVSGMSLRPRVN LQDFSQYQSL

GI\_4185940\_EMB\_CAA76880.1\_ (214) KFRPKGKPCPKKEIPKESKNTVLWVEECVANSVILQNNFPGTIIDWAPRGQFYHNCSSGQ 660  
 GI\_4185944\_EMB\_CAA76883.1\_ (214) KFRPKGKPCPKKEIPKESKNTVLWVEECVANSVILQNNFPGTIIDWAPRGQFYHNCSSGQ  
 GI\_4185948\_EMB\_CAA76886.1\_ (214) KFRPKGKPCPKKEIPKESKNTVLWVEECVANSVILQNNFPGTIIDWAPRGQFYHNCSSGQ  
 GI\_5931706\_EMB\_CAB56604.1\_ (108) KFRPKGKPCPKKEIPKESKNTVLWVEECVANSVILQNNFPGTIIDWAPRGQFYHNCSSGQ  
 ENV OF AB047240 (601) KFRPKGKPCPKKEIPKESKNTVLWVEECVANSVILQNNFPGTIIDWAPRGQFYHNCSSGQ  
 TRANSLATION OF E207TOP-LINK (8) KFRPKGKPCPKKEIPKESKNTVL-----  
 TRANSLATION OF ENV287-LINK (1) -----  
 TRANSLATION OF T20.22A-23 (219) KFRPKGKPCPKKEIPKESKNTVLWVEECVANSVILQNNFPGTIIDWAPRGQFYHNCSSGQ  
 PGD-E1 (1) --RPGKPCPKKEIPKESK-----  
 PGD-E2 (1) -----  
 PGD-E3 (1) -----  
 CONSENSUS (601) KFRPKGKPCPKKEIPKESKNTVLWVEECVANS VILQNNFPGTIIDWAPRGQFYHNCSSGQ

GI\_4185940\_EMB\_CAA76880.1\_ (274) TQSCQSAQVSPAVIDSLTESLDKHKHKKLQSFYPWEWGEKGISTPRPKIISPVSQGEHPHE 720  
 GI\_4185944\_EMB\_CAA76883.1\_ (274) TQSCPSAQVSPAVIDSLTESLDKHKHKKLQSFYPWEWGEKGISTPRPKIISPVSQGEHPHE  
 GI\_4185948\_EMB\_CAA76886.1\_ (274) TQSCPSAQVSPAVIDSLTESLDKHKHKKLQSFYPWEWGEKGISTPRPKIISPVSQGEHPHE  
 GI\_5931706\_EMB\_CAB56604.1\_ (168) TQSCPSAQVSPAVIDSLTESLDKHKHKKLQSFYLWEEWEEKGISTPRPKIISPVSQGEHPHE  
 ENV OF AB047240 (661) TQSCPSAQVSPAVIDSLTESLDKHKHKKLQSFYPWEWGEKGISTPRPETISPVSQGEHPHE  
 TRANSLATION OF E207TOP-LINK (31) -----SDLTESLDKHKHKKLQSFYPWEWGEKGI-----  
 TRANSLATION OF ENV287-LINK (279) TQSCPSAQVSPAVIDSLTESLDKHKHKKLQSFYPWEWGEKGISTPRPKIISPVSQGEHPHE  
 TRANSLATION OF T20.22A-23 (17) -----  
 PGD-E1 (1) -----  
 PGD-E2 (1) -----  
 PGD-E3 (1) -----  
 CONSENSUS (661) TQSC SAQVSPAVIDSLTESLDKHKHKKLQSFYPWEWGEKGISTPRP IISPVSQGEHPHE

GI\_4185940\_EMB\_CAA76880.1\_ (334) LWRLTVASHHIREWSGNQTLSTRDRKPFYITDLNSSITVPLQSCIKPPYMLVVGNIIVIKP 780  
 GI\_4185944\_EMB\_CAA76883.1\_ (334) LWRLTVASHHIREWSGNQTLSTRDRKPFYITDLNSSITVPLQSCIKPPYMLVVGNIIVIKP  
 GI\_4185948\_EMB\_CAA76886.1\_ (334) LWRLTVASHHIREWSGNQTLSTRDRKPFYITDLNSSITVPLQSCIKPPYMLVVGNIIVIKP  
 GI\_5931706\_EMB\_CAB56604.1\_ (228) LWRLTVASHHIREWSGNQTLSTRYRKPFYITDLNSITVPLQSCIKPPYMLVVGNIIVIKP  
 ENV OF AB047240 (721) LW-----R-----W-----P-----  
 TRANSLATION OF E207TOP-LINK (31) -----  
 TRANSLATION OF ENV287-LINK (29) -----  
 TRANSLATION OF T20.22A-23 (339) LWRLTVASHHIREWSGNQTLSTRDRKPFYITDLNSSITVPLQSCIKPPYMLVVGNIIVIKP  
 PGD-E1 (17) -----  
 PGD-E2 (1) -----LNSITVPLQSCIKPC-----  
 PGD-E3 (1) -----  
 CONSENSUS (721) LW RI LNS LTVPLQSCVKP

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## FIGURE 9 CONTD...

GI_4185940_EMB_CAA76880.1_	(394)	DSQTITCENCRLLTCTIDSTFNQHRILLVRAREGVWIPVSMRDPWEASPSVHILTEVLKG	781	840
GI_4185944_EMB_CAA76883.1_	(394)	DSQTITCENCRLLTCTIDSTFNQHRILLVRAREGVWIPVSMRDPWEASPSVHILTEVLKG		
GI_4185948_EMB_CAA76886.1_	(394)	DSQTITCENCRLLTCTIDSTFNQHRILLVRAREGVWIPVSMRDPWEASPSVHILTEVLKG		
GI_5931706_EMB_CAB56604.1_	(288)	ASQTITCENCRLFTCTIDSTFNQHRILLVRAREGMWIPVSTDPRWEASPSVHILTEILKG		
ENV OF AB047240	(727)	-----DUTLEEGLEIKL-----		
TRANSLATION OF E207TOP-LINK	(31)	-----		
TRANSLATION OF ENV287-LINK	(29)	-----		
TRANSLATION OF T20.22A-23	(399)	DSQTITCENCRLLTCTIDSTFNQHRILLVRAREGVWIPVSMRDPWEASPSVHILTEVLKG		
PGD-E1	(17)	-----		
PGD-E2	(17)	-----		
PGD-E3	(1)	-----		
CONSENSUS	(781)	DST W I L		
GI_4185940_EMB_CAA76880.1_	(454)	VLNRSKRFIFTLIAVIMGLIAVTATAAVAGVALHSSVQSVNFVNDWQKNSTRLWNSQSSI	841	900
GI_4185944_EMB_CAA76883.1_	(454)	VLNRSKRFIFTLIAVIMGLIAVTATAAVAGVALHSSVQSVNFVNDWQKNSTRLWNSQSSI		
GI_4185948_EMB_CAA76886.1_	(454)	VLNRSKRFIFTLIAVIMGLIAVTATAAVAGVALHSSVQSVNFVNDWQKNSTRLWNSQSSI		
GI_5931706_EMB_CAB56604.1_	(348)	VLNRSKRFIFTLIAVIMGLIAVTATAAVAGVALHSSVQSVNFVNYWQKNSTRLWNSQSSI		
ENV OF AB047240	(739)	-----		
TRANSLATION OF E207TOP-LINK	(31)	-----		
TRANSLATION OF ENV287-LINK	(29)	-----		
TRANSLATION OF T20.22A-23	(459)	VLNRSKRFIFTLIAVIMGLIAVTATAAVAGVALHSSVQSVNFVNDWQKNSTRLWNSQSSI		
PGD-E1	(17)	-----		
PGD-E2	(17)	-----		
PGD-E3	(1)	-----		
CONSENSUS	(841)			
GI_4185940_EMB_CAA76880.1_	(514)	DQKLANQINDLRQTVIWMGDRLMSLEHRFQLQCDWNTSDFCITPQIYNESEHHWDMVRRH	901	960
GI_4185944_EMB_CAA76883.1_	(514)	DQKLANQINDLRQTVIWMGDRLMSLEHRFQLQCDWNTSDFCITPQIYNESEHHWDMVRRH		
GI_4185948_EMB_CAA76886.1_	(514)	DQKLANQINDLRQTVIWMGDRLMSLEHRFQLQCDWNTSDFCITPQIYNESEHHWDMVRRH		
GI_5931706_EMB_CAB56604.1_	(408)	DQKLANQINDLRQTVIWMGDRLMTLEHHFQLQCDWNTSDFCITPQIYNESEHHWDMVRRH		
ENV OF AB047240	(739)	-----		
TRANSLATION OF E207TOP-LINK	(31)	-----		
TRANSLATION OF ENV287-LINK	(29)	-----		
TRANSLATION OF T20.22A-23	(519)	DQKLANQINDLRQTVIWMGDRLMSLEHRFQLQCDWNTSDFCITPQIYNESEHHWDMVRRH		
PGD-E1	(17)	-----		
PGD-E2	(17)	-----		
PGD-E3	(1)	-----		
CONSENSUS	(901)			
GI_4185940_EMB_CAA76880.1_	(574)	LQGREDNLTLDISKLEQIFEASKAHLNLPVGTAEIAGVADGLANLNPVTWVKIGSTTI	961	1020
GI_4185944_EMB_CAA76883.1_	(574)	LQGREDNLTLDISKLEQIFEASKAHLNLPVGTAEIAGVADGLANLNPVTWVKIGSTTI		
GI_4185948_EMB_CAA76886.1_	(574)	LQGREDNLTLDISKLEQIFEASKAHLNLPVGTAEIAGVADGLANLNPVTWVKIGSTTI		
GI_5931706_EMB_CAB56604.1_	(468)	LQGREDNLTLDISKLEQIFEASKAHLNLPVGTAEIAGVADGLANLNPVTWIKTIRSTMI		
ENV OF AB047240	(739)	-----		
TRANSLATION OF E207TOP-LINK	(31)	-----		
TRANSLATION OF ENV287-LINK	(29)	-----		
TRANSLATION OF T20.22A-23	(579)	LQGREDNLTLDISKLEQIFEASKAHLNLPVGTAEIAGVADGLANLNPVTWVKIGSTTI		
PGD-E1	(17)	-----		
PGD-E2	(17)	-----		
PGD-E3	(1)	-----		
CONSENSUS	(961)			
GI_4185940_EMB_CAA76880.1_	(634)	INLILILVCLFCLLLVCRCTQQLRRSDHRRERAMMTMAVLSKRKGGNVGKSKRDQIVTVSV	1021	1081
GI_4185944_EMB_CAA76883.1_	(634)	INLILILVCLFCLLLVCRCTQQLRRSDHRRERAMMTMAVLSKRKGGNVGKSKRDQIVTVSV		
GI_4185948_EMB_CAA76886.1_	(634)	INLILILVCLFCLLLVCRCTQQLRRSDHRRERAMMTMAVLSKRKGGNVGKSKRDQIVTVSV		
GI_5931706_EMB_CAB56604.1_	(528)	INLILIVVCLFCLLLVCRCTQQLRRSDIENG		
ENV OF AB047240	(739)	-----		
TRANSLATION OF E207TOP-LINK	(31)	-----		
TRANSLATION OF ENV287-LINK	(29)	-----		
TRANSLATION OF T20.22A-23	(639)	INLILILVCLFCLLLVCRCTQQLRRSDHRRERAMMTMAVLSKRKGGNVGKSKRDQIVTVSV		
PGD-E1	(17)	-----		
PGD-E2	(17)	-----		
PGD-E3	(1)	-----RCTQQLRRSDHRRERA-----		
CONSENSUS	(1021)	RCTQQLRRSD		

FOOTNOTES